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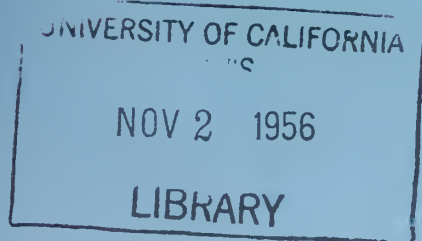
PUBLICATION OF
STATE WATER RESOURCES BOARD

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FIRST SUPPLEMENT TO BULLETIN NO. 11
SAN JOAQUIN COUNTY INVESTIGATION

BASIC DATA
CALAVERAS AND LITTLEJOHNS UNITS
1953-1955

-----O-----



MAY, 1956

STATE OF CALIFORNIA

GOODWIN J. KNIGHT
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MAY, 1956

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STATE OF CALIFORNIA
STATE WATER RESOURCES BOARD
PUBLIC WORKS BUILDING
SACRAMENTO 5, CALIFORNIA

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May 28, 1956

ADDRESS ALL COMMUNICATIONS TO THE SECRETARY

Mr. Clair A. Hill, Chairman
State Water Resources Board
Public Works Building
Sacramento, California


Dear Mr. Hill:

There is transmitted herewith the First Supplement to Bulletin No. 11, "San Joaquin County Investigation, June, 1955", a publication of the State Water Resources Board.

This supplement was prepared in accordance with the terms of two separate cooperative agreements. The first agreement, dated October 1, 1953, between the State Water Resources Board, the County of San Joaquin, and the Department of Public Works of the State of California, acting through the agency of the State Engineer, prescribed the collecting of basic hydrologic data from the fall of 1953 through the spring of 1954 in the Calaveras and Littlejohns Units of the San Joaquin Area. The second agreement, dated October 1, 1954, between these same state agencies and the Stockton and East San Joaquin Water Conservation District, prescribed the collecting of basic hydrologic data from the fall of 1953 through the spring of 1955 in the Calaveras Unit.

Very truly yours,

/s/ Harvey O. Banks
Harvey O. Banks
Secretary



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ORGANIZATION

STATE DEPARTMENT OF PUBLIC WORKS DIVISION OF WATER RESOURCES

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Harvey O. Banks State Engineer
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This report was prepared
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FIRST SUPPLEMENT TO STATE WATER RESOURCES BOARD
BULLETIN NO. 11, "SAN JOAQUIN COUNTY INVESTIGATION"

This first supplement to State Water Resources Board Bulletin No. 11, "San Joaquin County Investigation", June, 1955, has been prepared in accordance with the terms of two separate cooperative agreements. The first agreement, dated October 1, 1953, between the State Water Resources Board, the County of San Joaquin, and the Department of Public Works of the State of California, acting through the agency of the State Engineer, prescribed the collecting of basic hydrologic data from the fall of 1953 through the spring of 1954 in the Calaveras and Littlejohns Units of the San Joaquin Area. The second agreement, dated October 1, 1954, between these same state agencies and the Stockton and East San Joaquin Water Conservation District, prescribed the collecting of basic hydrologic data from the fall of 1953 through the spring of 1955 in the Calaveras Unit. Copies of these agreements are included as an appendix to this supplement.

This report also contains a compilation of depths to water measured at wells in the San Joaquin Area from the fall of 1947 through the spring of 1953, comprising Appendix E to Bulletin No. 11 and Table 1 to this supplement. Table 2 presents records of depth to ground water measurements in the Calaveras Unit from the fall of 1953 through the spring of 1955, and Table 3 is a compilation of depth to ground water measurements in the Littlejohns Unit in the fall of 1953 and the spring of 1954. Partial and complete mineral analyses of ground water in both the aforementioned units are contained in Tables 4 and 5, respectively.

Runoff records from principal streams in the San Joaquin Area are published in the annual "Report of Sacramento-San Joaquin Water Supervision", a publication of the Division of Water Resources. Data in that report includes runoff of the Calaveras River at Jenny Lind, Calaveras River at Bellota, Calaveras River near Stockton, Mormon Slough at Bellota, Stockton Diverting Canal at Stockton, Littlejohns Creek at Farmington, Duck Creek at Farmington, Duck Creek near Stockton, Lone Tree Creek near Manteca, Tempo Creek near Manteca, and French Camp Slough near French Camp. Other data published include diversion quantities from the Calaveras River, Mormon Slough, and Stockton Diverting Canal, as well as complete mineral analyses of water samples obtained from the Calaveras River at Jenny Lind. Additional hydrologic data are set forth in Water Quality Investigations Report No. 7 of the Division of Water Resources, entitled "Quality of Ground Water in the Stockton Area, San Joaquin County", 1955.

The wells at which measurements were made, or water samples obtained, during the period from the fall of 1953 through the spring of 1955, are delineated on the plate entitled "Location of Wells and Stream Gaging Stations in Calaveras and Littlejohns Units", following page 115 of this supplement.

The well numbering system now in general use by the Division of Water Resources corresponds to that utilized in California by the United States Geological Survey. This system indicates the location of wells according to township, range, and section. Under this system each section is divided into 40-acre plots which are lettered as follows:

D	C	B	A
E	F	G	H
M	L	K	J
N	P	Q	R

Within each 40-acre plot wells are numbered serially. Thus, well 2N/7E-36K2 is the second well located within the NW1/4 of the SE1/4 of Section 36 in Township 2 North, Range 7 East, Mount Diablo Base and Meridian.

The lettering within the section, as shown in the foregoing diagram, differs from that shown on page 39 of Bulletin No. 11. All well numbers used in this supplement have been changed to conform with the system described above.

TABLE 1

DEPTHS TO GROUND WATER AT
MEASUREMENT WELLS IN SAN JOAQUIN AREA

(Appendix E to
State Water Resources Board Bulletin No. 11)

TABLE 1

DEPTHS TO GROUND WATER AT MEASUREMENT

WELLS IN SAN JOAQUIN AREA

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

5N/5E-32B1--Reference point-top of casing, elevation 0 foot. 0.01 mile south of Barber Road, 0.38 mile west of Blossom Road. 10/19/48, 6.0; 1/20/49, 5.1; 3/28/49, 4.6; 10/17/49, 5.0; 11/22/49, 5.2; 1/11/50, 4.3; 3/24/50, 3.9; 10/31/50, 4.3; 3/28/51, 3.1; 11/15/51, 5.4; 3/31/52, 2.5; 9/10/52, 3.0; 11/10/53, 4.5; 3/25/53, 3.8

5N/5E-32M1--Reference point-top of casing, elevation 2 feet. 0.20 mile east of Vail Road, 0.45 mile south of Barber Road. 10/18/48, 5.8; 1/20/49, 4.6; 3/28/49, 3.3; 10/17/49, 5.6; 11/22/49, 6.0; 1/11/50, 4.6; 3/24/50, 3.5; 10/31/50, 6.0; 3/28/51, 2.9; 11/15/51, 6.2; 3/31/52, 2.2; 9/10/52, 7.8; 11/10/52, 6.3.
mile

5N/5E-32R3--Reference point-top of casing, elevation 4.5 feet. 0.01 mile west of Blossom Road, 0.65 mile south of Barber Road. 10/18/48, 6.3; 1/20/49, 3.9; 3/28/49, 3.7; 10/17/49, 6.3; 11/22/49, 6.5; 1/11/50, 2.3; 3/24/50, 4.1; 10/31/50, 6.9; 3/28/51, 4.6; 11/15/51, 6.3; 3/31/52, 3.9; 9/10/52, 7.8; 11/10/52, 7.8.

5N/5E-33A1--Reference point-top of casing, elevation 9 feet. East side of Thornton Road, 0.03 mile south of its intersection with Barber Road. 10/19/48, 10.2; 1/20/49, 9.3; 2/17/49, 9.3 (oper.); 3/28/49, 7.4; 5/4/49, 8.4; 6/2/49, 8.1; 7/6/49, 8.9; 8/1/49, 9.3; 9/5/49, 9.7; 10/7/49, 10.3; 10/17/49, 10.5 (oper.); 11/22/49, 11.1; 1/11/50, 9.6; 2/16/50, 7.5; 3/24/50, 7.7; 5/5/50, 7.9; 6/2/50, 6.4; 7/5/50, 8.1; 8/3/50, 9.7; 8/31/50, 10.1; 10/2/50, 10.5; 10/30/50, 10.7; 3/27/51, 5.4; 11/15/51, 10.5; 3/31/52, 5.1; 9/10/52, 9.4; 11/7/52, 8.7; 3/25/53, 8.0.

5N/5E-33K1--Reference point-top of casing, elevation 6 feet. 0.45 mile west of Thornton Road, 0.75 mile north of Walnut Grove Road. 10/19/48, 8.4; 1/21/49, 7.1; 3/28/49, 6.0; 10/17/49, 8.4; 11/22/49, 8.6; 1/12/50, 6.5; 3/24/50, 5.7; 10/30/50, 8.7; 3/28/51, 4.7; 11/15/51, 8.7; 4/1/52, 4.3; 9/10/52, (oper.); 11/7/52, 8.2.

5N/6E-36R1--Reference point-slot in concrete, elevation 63 feet. 0.25 mile north of Liberty Road, 0.03 mile west of Stockton Road. 10/20/48, 42.1; 1/18/49, 40.1; 2/18/49, 39.4; 3/30/49, 37.7; 8/1/49, 48.1; 9/5/49, 63.3 (oper.); 10/7/49, 61.8; 10/19/49, 47.2; 11/23/49, 45.2; 1/9/50, 43.7; 2/16/50, 41.3; 3/23/50, 40.6; 5/5/50, 41.5; 6/2/50, 61.6; 7/5/50, 61.6; 8/3/50, 53.5; 8/31/50, 64.6; 10/2/50, 63.7; 11/1/50, 48.3; 3/27/51, 39.0; 11/14/51, 47.7; 3/31/52, 38.9; 11/12/52, 50.9; 3/24/53, 42.3.

5N/7E-25H11--Reference point-top of casing, elevation 102.6 feet. East side of Jacktone Road, 1.51 miles north of Liberty Road. 11/25/49, 21.3; 3/28/50, 10.4.

5N/7E-30N1--Reference point-top of concrete curb, elevation 65.1 feet. East side of Stockton Road, 1.1 miles north of Liberty Road. 11/23/49, 46.0; 3/23/50, 35.0.

5N/7E-32F1--Reference point-crack between boards, elevation 72 feet. 0.40 mile east of Central California Traction Company Railroad, 0.55 mile north of Liberty Road. 10/25/48, 47.7; 1/21/49, 41.5; 3/31/49, 37.9; 10/19/49, 47.4; 11/23/49, 45.9; 1/12/50, 44.6; 3/29/50, 40.6; 11/2/50, 51.7; 5/27/51, 48.5; 11/16/51, 51.8; 4/2/52, 45.1; 11/12/52, 51.9; 3/26/53, 47.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/7E-34G1--Reference point-hole in pump base, elevation 89 feet. 0.28 mile west of Sowles Road, 0.52 mile north of Liberty Road. 10/25/48, 48.1; 1/21/49, 47.0; 2/17/49, 46.8; 4/4/49, 46.0; 5/3/49, 47.8; 6/2/49, 49.4; 7/1/49, 53.0 (oper.); 8/2/49, 50.2; 9/1/49, 51.5; 10/3/49, 51.7; 10/19/49, 51.6; 11/23/49, 50.4; 1/10/50, 49.4; 2/16/50, 48.6; 3/29/50, 37.9; 5/30/50, 51.4 (oper.); 6/29/50, 52.3; 8/1/50, 64.0 (oper.); 10/2/50, 54.0; 11/2/50, 52.7; 3/27/51, 47.7; 11/16/51, 52.6; 4/3/52, 48.1; 11/12/52, 54.7; 3/26/53, 51.8.

5N/7E-35G1--Reference point-hole in pump base, elevation 91 feet. 0.50 mile west of Elliot Road, 0.51 mile north of Liberty Road. 10/22/48, 52.6; 1/21/49, 50.1; 3/31/49, 49.0; 10/21/49, 60.0; 11/18/49, 54.1; 1/10/50, 52.6; 3/23/50, 52.9; 11/2/50, 56.3; 3/27/51, 53.1; 11/16/51, 56.5; 4/2/52, 51.8; 11/5/52, 55.4; 3/24/53, 54.2.

5N/3E-11J1--Reference point-slot in concrete, elevation 145 feet. 0.45 mile north of southeast corner of section, 0.13 mile west of east line. 11/19/48, 53.5; 1/17/49, 56.6; 4/14/49, 57.3; 10/19/49, 53.0; 11/28/49, 52.8; 1/10/50, 52.7; 3/29/50, 52.1; 11/1/50, 55.1; 3/30/51, 52.5; 11/13/51, 54.9; 11/13/52, 58.8; 3/24/53, 53.6.

5N/8E-14E1--Reference point-top of casing, elevation 146 feet. 0.25 mile south of Dry Creek, 0.04 mile east of road to Forni Ranch. 10/25/48, 57.1; 1/27/49, 57.6; 3/30/49, 57.2; 10/18/49, 58.6; 11/18/49, 58.6; 1/10/50, 58.3; 3/29/50, 58.2; 11/1/50, 61.4; 3/29/51, 59.6; 11/13/51, 60.5; 4/2/52, 59.5; 11/5/52, 62.1; 3/24/53, 60.5.

5N/8E-15P1--Reference point-slot in casing, elevation 140 feet. 0.50 mile south of Dry Creek, 0.38 mile northeast of southwest corner of section. 1/25/49, 62.2; 3/30/49, 61.4; 10/18/49, 63.6; 11/18/49, 63.9; 1/10/50, 64.2; 3/29/50, 63.5; 11/1/50, 69.1; 3/29/51, 67.7.

5N/8E-21E2--Reference point-hole in base, elevation 120 feet. 0.55 mile south of Dry Creek, 0.38 mile southeast of northwest corner of section. 10/25/48, 74.6; 1/27/49, 59.9; 3/30/49, 58.6; 10/18/49, 62.2; 11/18/49, 61.8; 1/10/50, 61.4; 3/29/50, 61.1; 11/1/50, 64.0; 3/29/51, 62.2; 11/13/51, 64.4; 4/2/52, 63.2; 11/5/52, 67.6; 3/24/53, 64.6.

5N/8E-22Q1--Reference point-hole in floor, elevation 207.4 feet. 1 mile north of end of Mackville Road. 11/26/34, 133.2; 11/9/36, 133.9; 11/5/37, 130.8; 1/13/39, 133.5; 1/22/41, 136.5; 11/8/47, 133.8; 12/15/48, 136.2; 12/8/49, 136.4; 11/1/50, 138.4; 11/28/51, 153.1; 11/5/52, 149.7; 3/24/53, 143.1.

5N/8E-30A1--Reference point-hole in base of pump, elevation 112 feet. 0.20 mile west of Dry Creek Road, 0.05 mile north of Prouty Road. 10/22/48, 60.7; 1/24/49, 51.5; 2/17/49, 49.4; 3/30/49, 50.5; 5/4/49, 53.1; 1/6/49, 53.5; 8/2/49, 55.0 (oper.); 9/5/49, 58.5 (oper.); 10/7/49, 60.2 (oper.); 11/23/49, 49.9; 1/12/50, 49.1; 2/16/50, 50.6; 3/28/50, 50.4; 5/4/50, 52.1; 8/3/50, 48.5; 8/31/50, 50.4; 10/4/50, 50.1; 11/1/50, 48.9; 3/27/51, 30.9; 11/16/51, 61.4; 4/2/52, 26.4; 11/13/52, 45.2; 3/24/53, 38.8.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

5N/8E-31Q1--Reference point-top of casing, elevation 118 feet. 0.57 mile east of Jack Tone Road, north side of Liberty Road. 10/25/48, 69.5; 1/24/49, 67.8; 2/17/49, 67.4; 3/30/49, 67.1; 6/6/49, 72.4; 7/6/49, 74.2; 8/2/49, 75.5; 9/5/49, 74.2; 10/7/49, 74.0; 10/18/49, 73.9; 11/23/49, 70.9; 1/10/50, 68.1; 2/16/50, 69.0; 3/28/50, 68.9; 5/4/50, 73.2; 5/30/50, 82.0 (oper.); 7/5/50, 84.1 (oper.); 8/3/50, 78.0; 1/31/50, 78.2; 10/4/50, 83.7 (oper.); 11/1/50, 77.9; 11/15/51, 78.2; 4/2/52, 70.4; 11/13/52, 84.3; 3/24/53, 74.9.

5N/8E-32P1--Reference point-top of casing, elevation 145 feet. 1.10 miles north of Dry Creek Road, 0.02 mile east of Prouty Road. 10/22/48, 85.0; 1/24/49, 84.0; 2/17/49, 83.8; 3/30/49, 83.3; 5/4/49, 84.9; 6/6/49, 86.0; 7/6/49, 87.0; 8/2/49, 88.7; 9/5/49, 88.1; 10/7/49, 88.3; 10/18/49, 88.4; 11/18/49, 88.7; 1/10/50, 88.6; 2/16/50, 85.9; 3/28/50, 87.7; 5/4/50, 88.2; 5/30/50, 88.2; 7/5/50, 89.7; 8/3/50, 90.4; 8/31/50, 91.0; 10/4/50, 91.0; 11/1/50, 92.0; 3/27/51, 86.4; 11/16/51, 90.3; 4/2/52, 87.4; 11/13/52, 93.7; 3/24/53, 96.8.

5N/8E-32R1--Reference point-top of casing, elevation 162.9 feet. North side of Liberty Road, 0.99 mile east of Dry Creek Road. 11/23/49, 108.2; 3/28/50, 107.3; 11/1/50, 111.1; 3/29/51, 105.7; 11/19/51, 108.9; 4/2/52, 109.8; 11/13/52, 115.7; 3/24/53, 111.1.

5N/8E-34C1--Reference point-top of casing, elevation 212.3 feet. 1.0 mile north of Liberty Road, 300 feet west of Mackville Road. 11/12/29, 135.5; 10/22/30, 140.0; 12/8/31, 140.0; 11/21/32, 140.3; 12/27/33, 145.0.

5N/8E-34N1--Reference point-top of pit curb, elevation 166.7 feet. 0.4 mile west of Mackville Road, 0.1 mile north of Liberty Road. 11/23/49, 105.8; 3/28/50, 105.1; 11/1/50, 107.7; 3/29/51, 107.1; 11/19/51, 125.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/4E-12H1--Reference point-top of casing, elevation 1 foot. 0.25 mile west of Lamb Road, 0.70 mile south of Walnut Grove Road. 10/18/48, 10.1; 1/20/49, 3.2; 3/28/49, 5.6; 10/17/49, 11.0; 3/24/50, 7.0.

4N/5E-3D2--Reference point-top of beams under pump, elevation 9 feet. Southeast corner intersection on Thornton Road, 0.4 mile north of Walnut Grove Road. 10/18/48, 10.9; 1/20/49, 8.2; 2/17/49, 7.9; 3/28/49, 6.7; 5/4/49, 10.2; 6/2/49, 8.1; 7/6/49, 10.5; 8/1/49, 10.0; 9/5/49, 12.5; 10/7/49, 12.6; 11/22/49, 9.7; 1/11/50, 8.5; 2/16/50, 7.0; 3/24/50, 7.2; 5/5/50, 9.8; 6/2/50, 9.4; 7/5/50, 11.4; 8/3/50, 13.6; 8/31/50, 11.8; 10/2/50, 11.8; 10/30/50, 11.0; 3/27/51, 5.2; 11/15/51, 10.0; 4/1/52, 4.1; 9/10/52, 11.2; 11/7/52, 9.4.

4N/5E-3P1--Reference point-top of casing, elevation 10 feet. Southwest corner of intersection of Walnut Grove and Thornton Roads. 10/22/48, 7.5; 1/20/49, 6.7; 2/17/49, 6.7; 3/28/49, 5.6; 5/4/49, 6.9; 6/2/49, 7.4; 7/6/49, 11.7; 8/1/49, 16.9; 9/5/49, 8.5; 10/7/49, 8.0; 10/17/49, 8.0; 11/22/49, 7.6; 1/11/50, 7.1; 2/16/50, 5.1; 3/24/50, 6.0; 5/5/50, 7.7; 6/2/50, 8.3; 7/5/50, 8.0; 8/3/50, 8.9; 8/31/50, 10.1; 10/2/50, 9.5; 10/30/50, 9.4; 3/27/51, 5.3; 11/15/51, 9.4; 4/1/52, 3.9; 9/10/52, 12.7; 11/7/52, 9.9; 3/25/53, 6.6.

4N5E-4E1--Reference point-hole in cap over casing, elevation 6 feet. Northeast corner of intersection of Walnut Grove and Blossom Roads. 10/18/48, 6.8; 12/13/48, 5.2; 1/20/49, 5.4; 3/28/49, 5.2; 10/17/49, 6.7; 11/22/49, 7.3; 12/7/49, 6.3; 1/11/50, 4.6; 3/24/50, 5.7; 10/30/50, 7.0; 11/9/50, 7.4; 3/27/51, 6.1; 11/15/51, 8.0; 11/27/51, 8.1; 3/31/52, 5.1; 9/10/52, 6.8; 11/10/52, 8.8; 3/25/53, 6.5;

4N/5E-4G1--Reference point-base of windmill pump, elevation 6 feet. North of Walnut Grove Road, 0.4 mile west of Thornton Road. 10/23/48, 6.6; 1/20/49, 4.9; 3/28/49, 4.2; 10/17/49, 6.8; 11/22/49, 6.4; 1/11/50, 4.6; 3/24/50, 4.8; 10/31/50, 7.3; 3/27/51, 5.0; 11/15/51, 7.5; 3/31/52, 3.9; 9/10/52, 7.5; 11/10/52, 7.8.

4N/5E-4M1--Reference point-top of discharge flange, elevation 4 feet. 0.2 mile south of Walnut Grove Road, east side of Blossom Road. 11/14/29, 7.0; 10/23/30, 5.3; 12/7/31, 8.0; 11/4/32, 7.4; 12/26/33, 6.8; 11/14/34, 6.6; 11/6/36, 6.4; 11/4/37, 6.3; 1/12/39, 8.2; 1/22/41, 6.2; 11/18/47, 7.5.

4N/5E-5C1--Reference point-slot in concrete base, elevation 3 feet. 0.55 mile east of Vail Road, 0.4 mile north of Walnut Grove Road. 10/19/48, 8.7; 1/20/49, 7.6; 3/28/49, 6.3; 10/17/49, 8.4; 11/22/49, 8.9; 1/11/50, 5.5; 3/24/50, 6.3; 10/31/50, 9.0; 3/28/51, 6.2; 11/15/51, 9.2; 3/31/52, 5.5; 9/10/52 (Oper.); 11/10/52 (Oper.).

4N/5E-5I1--Reference point-top of casing, elevation 4 feet. Southeast corner of intersection of Walnut Grove and Vail Roads. 10/18/48, 7.1; 1/20/49, 7.2.

4N/5E-8H1--Reference point-slot in concrete base, elevation 1 foot. 0.34 mile west of Blossom Road, 0.75 mile south of Walnut Grove Road. 10/18/48, 5.5; 1/20/49, 2.8; 3/28/49, 3.8; 10/17/49, 7.0; 11/22/49, 6.5; 1/11/50, 2.5; 3/29/50, 4.5; 11/2/50, 6.6; 3/28/51, 5.0; 11/15/51, 7.7; 3/31/52, 4.3; 9/10/52, 7.3; 11/12/52, 7.3; 3/25/53, 4.7.

DEPTHS TO GROUND WATER AT MEASUREMENT.
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/5E-10A1--Reference point-top of concrete pit, elevation 13 feet. North of corner of Walnut Grove Road, 0.3 mile east of Western Pacific Railroad crossing. 10/18/48, 11.3; 1/20/49, 9.9; 3/28/49, 8.5; 10/17/49, 11.7; 11/22/49, 11.1; 1/11/50, 10.6; 3/24/50, 9.3; 10/30/50, 10.9; 3/28/51, 6.3; 11/15/51, 11.4; 4/1/52, 5.4; 9/10/52, 9.5; 11/10/52, 10.7.

4N/5E-10A1--Reference point-top of casing, elevation 7 feet. 0.3 mile west of Thornton Road, 0.3 mile north of Beaver Slough. 10/23/48, 6.8; 1/20/49, 6.6; 2/17/49, 6.2; 3/28/49, 5.0; 5/4/49, 6.3; 6/2/49, 6.5; 7/6/49, 6.4; 8/1/49, 6.8; 9/5/49, 6.7; 10/7/49, 6.9; 10/17/49, 7.1; 11/21/49, 7.1; 1/12/50, 7.2; 2/16/50, 4.9; 3/24/50, 6.0; 5/5/50, 6.5; 6/2/50, 6.3; 7/5/50, 6.1; 8/3/50, 6.1; 8/31/50, 6.7; 10/2/50, 6.6; 10/30/50, 6.7; 2/27/51, 5.4; 11/15/51, 7.5; 4/1/52, 4.7; 9/10/52, 5.8; 11/7/52, 6.8; 3/25/53, 5.7.

4N/5E-11L1--Reference point-top of casing, elevation 13 feet. 0.4 mile east of Walnut Grove Road at Beaver Slough Crossing. 10/18/48, 9.4; 1/20/49, 8.2; 3/28/49, 5.9; 10/17/49, 9.5; 11/22/49, 9.9; 1/11/50, 9.7; 3/24/50, 7.7; 10/30/50, 5.6.

4N/5E-12N1--Reference point-top of concrete pit at silver paint bench mark, elevation 14 feet. North of Walnut Grove Road, 1.0 mile west of Ray Road. 10/19/48, 12.8; 1/20/49, 10.2; 3/28/49, 7.5; 10/21/49, 13.8; 11/22/49, 11.9; 1/11/50, 11.3; 3/24/50, 9.3; 3/27/51, 5.0; 11/15/51, 10.2; 4/1/52, 4.9; 9/10/52, 9.7; 11/10/52, 9.2; 3/24/53, 7.8.

4N/5E-13H1--Reference point-top of concrete casing in pit, elevation 16.6 feet. West side of Ray Road, 0.65 mile north of Peltier Road. 10/15/48, 11.6; 1/20/49, 8.8; 3/28/49, 6.8; 10/17/49, 11.8; 11/21/49, 10.6; 1/11/50, 9.7; 3/24/50, 7.4; 10/30/50, 9.3; 3/27/51, 1.9; 11/14/51, 8.7; 3/31/52, 0.8; 9/10/52, 8.8; 11/10/52, 6.8; 3/24/53, 3.9.

4N/5E-15G1--Reference point-top of casing, elevation 11 feet. 0.5 mile north of Peltier Road, 0.4 mile west of Thornton Road. 10/18/48, 8.1; 1/20/49, 6.3; 3/28/49, 5.9; 10/17/49, 8.5; 11/22/49, 8.2; 1/11/50, 7.9; 3/29/50, 6.9; 3/29/51, 6.7; 9/10/52, 7.8; 11/12/52, 8.1.

4N/5E-15N1--Reference point-top of casing at scratch mark, elevation 3 feet. North of Peltier Road, 1.0 mile west of Thornton Road. 10/28/48, 3.9; 1/20/49, 3.3; 3/28/49, 4.5; 10/17/49, 4.3; 11/22/49, 3.8; 1/11/50, 2.5; 3/24/50, 2.5; 11/2/50, 2.4; 3/28/51, 4.6.

4N/5E-16C1--Reference point-bottom of pump base, elevation 1 foot. 0.35 mile east of Blossom Road, along south levee of Beaver Slough. 10/22/48, 3.9; 1/20/49, 3.2; 3/28/49, 3.2; 10/17/49, 4.3; 11/22/49, 4.0; 1/11/50, 3.3; 3/29/50, 3.4; 11/2/50, 4.1; 3/28/51, 4.0; 11/15/51, 4.5; 3/31/52, 4.4; 9/10/52, 3.9; 11/12/52, 4.1; 3/25/53, 3.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/5E-22A1--Reference point-top of casing, elevation 9.1 feet. Southwest corner of intersection of Thornton and Peltier Roads. 10/15/48, 4.0; 1/20/49, 2.9; 2/17/49, 3.3; 3/28/49, 3.2; 5/4/49, 4.1; 6/2/49, 4.3; 7/6/49, 5.1; 8/2/49, 6.0; 9/5/49, 5.6; 10/7/49, 4.3; 10/17/49, 4.2; 11/22/49, 3.5; 1/11/50, 3.0; 2/16/50, 3.1; 3/24/50, 3.3; 5/5/50, 3.9; 6/2/50, 4.3; 7/5/50, 4.6; 8/3/50, 5.3; 8/31/50, 4.8; 10/2/50, 4.4; 10/31/50, 2.8; 3/28/51, 3.1; 11/15/51, 4.8; 3/31/52, 3.5; 9/10/52, 4.2; 11/7/52, 3.3; 3/24/53, 3.5.

4N/5E-23Q1--Reference point-hole in cap, elevation 14.2 feet. 0.1 mile north of Acampo Road, 0.15 mile east of Thornton Road. 10/15/48, 4.3; 1/20/49, 3.2; 2/17/49, 3.4; 3/29/49, 3.3; 5/4/49, 5.1; 6/2/49, 5.3; 7/6/49, 5.8; 8/1/49, 6.2; 9/5/49, 5.6; 10/7/49, 5.8; 10/18/49, 5.4; 11/22/49, 4.9; 1/11/50, 4.4; 2/16/50, 3.1; 3/24/50, 4.2; 5/5/50, 5.7; 6/2/50, 5.9; 7/5/50, 6.0; 8/3/50, 6.8; 8/31/50, 6.0; 10/2/50, 5.2; 11/2/50, 4.5; 3/28/51, 4.7.

4N/5E-24D1--Reference point-top of casing, elevation 16.4 feet. South side of Peltier Road, 0.8 mile west of Ray Road. 10/15/48, 7.7; 1/21/49, 7.0; 3/28/49, 5.1; 10/17/49, 7.5; 11/22/49, 7.1; 1/12/50, 7.8; 3/24/50, 5.7; 10/31/50, 5.7; 3/27/51, 3.5; 11/15/51, 6.9; 3/31/52, 3.7; 9/10/52, 6.0; 11/12/52, 5.9; 3/24/53, 4.

4N/5E-24I1--Reference point-top of flange of check valve, elevation 16 feet. 0.45 mile north of Acampo Road, 0.65 mile west of Ray Road. 10/21/48, 6.0; 1/20/49, 6.0; 3/29/49, 4.4; 10/18/49, 6.1; 11/22/49, 5.7; 1/12/50, 6.9; 3/24/50, 5.1; 10/31/50, 4.7; 3/27/51, 2.8; 11/14/51, 5.8; 4/2/52, 3.9; 9/16/52, 4.0 (Oper.); 11/12/52, 4.9

4N/5E-34D1--Reference point-top of casing, elevation 4 feet. North side of Woodbridge Road, 1.55 miles west of Thornton Road. 10/15/48, 4.2; 1/21/49, 3.3; 3/29/49, 4.2; 10/18/49, 3.2; 11/22/49, 3.3; 1/11/50, 2.5; 3/24/50, 3.0; 10/31/50, 1.9; 3/28/51, 5.3; 11/16/51, 3.4; 4/1/52, 4.6; 11/12/52, 3.1; 3/25/53, 4.4.

4N/5E-36E1--Reference point-top of casing, elevation 15 feet. 1.0 mile west of Ray Road, 0.5 mile south of Woodbridge Road. 10/18/48, 4.4; 1/21/49, 4.1; 3/29/49, 2.4; 10/18/49, 3.5; 11/21/49, 3.5; 1/12/50, 4.4; 3/29/50, 2.8; 10/31/50, 3.8; 3/28/51, 2.3; 11/14/51, 4.5; 4/2/52, 2.5; 9/11/52, 3.1; 11/5/52, 3.2.

4N/5E-36P1--Reference point-top of casing, elevation 19 feet. 0.03 mile north of Turner Road, 0.3 mile west of Western Pacific Railroad. 10/15/48, 7.0; 1/21/49, 6.8; 3/29/49, 4.6; 10/18/49, 7.3; 11/21/49, 7.0; 1/12/50, 7.2; 3/24/50, 5.3; 10/31/50, 6.7; 3/28/51, 3.3; 11/14/51, 7.6; 4/1/52, 3.9; 9/11/52, 5.4; 11/5/52, 6.4

4N/6E-1D1--Reference point-concrete base, elevation 45 feet. 0.04 mile west of U. S. Highway 99, south side of Liberty Road. 10/29/48, 34.8; 1/18/49, 34.4; 3/30/49, 30.9; 10/19/49, 37.6; 11/23/49, 37.8; 1/9/50, 37.5; 3/23/50, 33.9; 10/31/50, 39.3.

4N/6E-1F1--Reference point-top of casing, elevation 58 feet. 0.22 mile east of U. S. Highway 99, 0.34 mile south of Liberty Road. 10/20/48, 39.3; 3/30/49, 39.2; 10/19/49, 45.3; 11/23/49, 45.0; 1/9/50, 44.4; 3/23/50, 42.1; 10/31/50, 46.7; 3/27/51, 38.1; 11/14/51, 46.5; 3/31/52, 40.9; 11/12/52, 45.3; 3/24/53, 42.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/6E-3A11--Reference point-hole in pump base, elevation 48.8 feet. 0.40 mile north of Forest Lake Road, 0.65 mile east of Sacramento Road. 11/28/49, 40.8; 3/23/50, 33.3; 11/1/50, 41.3; 3/27/51, 28.1; 11/14/51, 39.9; 4/2/52, 28.3; 11/12/52, 39.5.

4N/6E-5R11--Reference point-top of casing, elevation 35.4 feet. North side of Forest Lake Road, 2.25 miles west of intersection with Southern Pacific Railroad. 11/28/49, 29.0; 3/23/50, 26.7; 11/1/50, 29.3; 3/27/51, 20.6; 11/14/51, 26.6; 4/2/52, 18.8; 11/12/52, 25.8.

4N/6E-6N12--Reference point-top of casing, elevation 21.0 feet. 765 feet north and 260 feet east of southwest corner of section. 11/28/49, 18.4; 3/23/50, 15.0; 11/1/50, 18.5; 3/27/51, 6.6; 11/14/51, 16.7; 4/2/52, 6.3; 11/12/52, 15.2.

4N/6E-7B11--Reference point-top of casing, elevation 27.1. 1,380 feet west and 510 feet south of northeast corner of section. 11/28/49, 21.2; 3/23/50, 18.6; 11/1/50, 21.2; 3/27/51, 10.5; 11/14/51, 19.2; 4/2/52, 10.0; 11/12/52, 17.8.

4N/6E-9P1--Reference point-top of casing, elevation 32.3 feet. 150 feet north of Jahant Road, 0.80 mile west of Bender Road. 11/23/49, 22.6; 3/23/50, 20.8; 10/31/50, 22.8; 3/26/51, 15.2; 3/24/53, 20.6.

4N/6E-10N2--Reference point-top of casing, elevation 39.0 feet. 0.16 mile east of Bender Road, 0.07 mile north of Jahant Road. 4/1/49, 27.1; 5/2/49, 26.5; 6/1/49, 27.0; 7/1/49, 49.2 (Oper.); 8/1/49, 49.4 (Oper.); 9/1/49, 30.8; 10/4/49, 30.5; 5/1/50, 27.4; 6/2/50, 44.5 (oper.); 6/29/50, 44.1 (oper.); 8/1/50, 32.0; 9/6/50, 32.3; 10/2/50, 31.6.

4N/6E-11K1--Reference point-northwest corner of pump base, elevation 52.7 feet. 0.32 mile north of Jahant Road, 0.16 mile east of Southern Pacific Railroad. 10/20/48, 44.6; 1/18/49, 41.4; 3/30/49, 39.2; 10/19/49, 46.8; 11/23/49, 45.0; 1/9/50, 43.4; 3/23/50, 40.7; 10/31/50, 46.6; 3/26/51, 39.8; 11/14/51, 44.9; 3/31/52, 37.7; 11/5/52, 44.2; 3/24/53, 37.3.

4N/6E-12N1--Reference point-top of casing, elevation 51 feet. 1.0 mile east of U. S. Highway 99, north side of Jahant Road. 11/14/29, 25.8; 11/23/30, 27.3; 12/9/31, 29.0; 11/21/32, 32.6; 12/27/33, 29.5; 11/17/34, 31.2; 11/6/36, 29.7; 11/4/37, 29.3; 1/11/39, 25.7; 1/17/41, 29.1; 11/18/47, 37.5; 12/13/48, 38.0; 12/7/49, 41.3; 11/9/50, 43.0; 11/28/51, 41.4.

4N/6E-13D2--Reference point-hole in pump base, elevation 55 feet. 0.12 mile south of Jahant Road, 0.81 mile west of U. S. Highway 99. 4/4/49, 41.3; 5/2/49, 40.8; 6/2/49, 40.9; 7/1/49, 48.9; 8/2/49, 63.4 (oper.); 9/1/49, 46.4; 10/4/49, 46.3.

4N/6E-13G1--Reference point-hole in side of pump base, elevation 57.0 feet. 0.5 mile north of Peltier Road, 0.33 mile west of U. S. Highway 99. 10/19/48, 45.6; 1/18/49, 42.4; 2/17/49, 41.4; 3/30/49, 40.1; 5/4/49, 39.9; 6/6/49, 40.8; 7/6/49, 46.1; 8/1/49, 47.1; 9/5/49, 47.1; 10/7/49, 45.9; 10/19/49, 45.6; 11/23/49, 44.4; 1/9/50, 42.7; 2/16/50, 41.6; 3/23/50, 40.7; 5/5/50, 42.1; 6/2/50, 43.8; 7/5/50, 47.7; 8/3/50, 50.0; 8/31/50, 51.0; 10/4/50, 48.1; 11/1/50, 47.0; 3/26/51, 35.7; 11/14/51, 44.8; 3/31/52, 39.4; 11/5/52, 43.0; 3/27/53, 38.8.

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DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/6E-14E1--Reference point-top of casing, elevation 44.4 feet. 0.1 mile west of Sacramento Road, 0.22 mile south of Jahant Road. 10/19/48, 37.4; 1/19/49, 36.4; 3/28/49, 34.4; 10/18/49, 37.1; 11/23/49, 35.9; 1/9/50, 34.5; 3/23/50, 32.7; 11/1/50, 38.0; 3/26/51, 30.5; 11/14/51, 34.9; 3/31/52, 29.3; 11/5/52, 33.1.

4N/6E-14J1--Reference point-hole in pump base, elevation 50.1 feet. 0.5 mile north of Peltier Road, 1.13 mile west of U. S. Highway 99. 10/19/48, 43.2; 1/18/49, 38.3; 3/30/49, 36.0; 10/19/49, 41.7; 11/23/49, 40.4; 1/9/50, 38.9; 3/23/50, 37.2; 11/1/50, 42.9; 3/26/51, 36.1; 11/14/51, 40.1; 3/31/52, 34.1; 11/3/52, 39.3; 3/27/53, 34.6.

4N/6E-15E1--Reference point-top of 1-1/2" pipe, elevation 41.3 feet. 0.55 mile west of Sacramento Road, south side of Jahant Road. 10/29/48, 33.2; 1/21/49, 31.2; 3/28/49, 29.2; 10/18/49, 34.0; 11/23/49, 32.9; 1/9/50, 32.0; 3/27/50, 30.1; 10/31/50, 34.6; 11/14/51, 31.9; 3/31/52, 26.2; 11/5/52, 30.5.

4N/6E-15J1--Reference point-top of cement base, elevation 39 feet. 0.35 mile north of Peltier Road, 0.5 mile west of Bender Road. 10/20/48, 33.1; 1/25/49, 30.3; 3/28/49, 29.0; 10/18/49, 32.9; 11/23/49, 31.9; 1/9/50, 30.8; 3/23/50, 29.2; 10/31/50, 33.6; 3/26/51, 25.6; 11/14/51, 30.6; 3/31/52, 25.1; 11/5/52, 29.1; 3/24/53, 26.1.

4N/6E-16C1--Reference point-plug hole in pump base, elevation 33 feet. South side of Jahant Road, 0.57 mile west of Bender Road. 11/14/51, 21.3; 3/31/52, 15.4.

4N/6E-17D1--Reference point-top of flange of check valve, elevation 16.8 feet. 1.1 mile north of Peltier Road, 0.10 mile west of Ray Road. 10/21/48, 11.8; 1/20/49, 8.2; 2/17/49, 8.2; 3/28/49, 6.9; 5/4/49, 8.1; 6/2/49, 8.9; 7/6/49, 11.8; 8/1/49, 13.1; 9/5/49, 13.1; 10/7/49, 12.1; 10/17/49, 11.6; 11/21/49, 10.4; 1/10/50, 9.0; 2/16/50, 8.0; 3/24/50, 7.5; 5/5/50, 8.5; 6/2/50, 9.1; 7/5/50, 11.5; 8/3/50, 23.8 (oper.); 8/31/50, 13.6; 10/2/50, 11.8; 10/30/50, 10.5; 3/26/51, 1.0; 11/14/51, 8.7; 3/31/52, -0.5; 9/10/52, 8.2; 11/5/52, 6.8; 3/24/53, 5.0.

4N/6E-17Q1--Reference point-top of casing, elevation 30.0 feet. 0.27 mile west of Davis Road, north side of Peltier Road. 10/19/48, 19.4; 1/17/49, 17.4; 3/28/49, 16.8; 10/18/49, 19.2; 11/23/49, 18.8; 1/9/50, 17.9; 3/23/50, 17.0; 10/31/50, 19.0; 3/26/51, 10.2; 11/14/51, 17.5; 3/31/52, 9.4; 9/10/52, 16.2; 11/5/52, 15.8; 3/24/52, 14.4.

4N/6E-18F1--Reference point-top of concrete pit, elevation 23.1 feet. 0.45 mile east of Ray Road, 0.4 mile south of Walnut Grove Road. 10/21/48, 18.8; 1/21/49, 14.9; 3/28/49, 13.2; 10/17/49, 18.7; 11/21/49, 17.2; 1/12/50, 15.7; 3/24/50, 14.0; 10/30/50, 16.5; 3/26/51, 8.0; 11/14/51, 15.2; 3/31/52, 5.8; 9/10/52, 10.1; 11/5/52, 12.5.

4N/6E-19F1--Reference point-bottom of pump base, elevation 18.4 feet. 0.4 mile east of Ray Road, 0.5 mile south of Peltier Road. 10/18/48, 6.9; 1/21/49, 6.2; 3/29/49, 4.9; 10/18/49, 7.2; 11/21/49, 6.9; 1/12/50, 6.9; 3/29/50, 5.1; 10/31/50, 6.2; 3/29/51, 1.2; 11/14/51, 6.0; 3/31/52, -0.5; 9/10/52, 9.1; 11/10/52, 4.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements made by Division of Water Resources
(Depths to water in feet measured from a reference point)

4N/6E-20E1--Reference point-top of casing, elevation 29.7 feet. 0.15 mile east of Telegraph Road, 0.25 mile south of Peltier Road. 10/21/48, 18.5; 1/20/49, 16.9; 2/17/49, 16.8; 3/28/49, 16.3; 5/4/49, 16.4; 6/2/49, 18.2; 7/6/49, 20.9; 8/1/49, 21.6; 9/5/49, 19.7; 10/7/49, 18.9; 10/17/49, 18.7; 11/21/49, 18.1; 1/11/50, 17.6; 2/16/50, 17.2; 3/24/50, 16.7; 5/5/50, 16.3; 6/2/50, 28.5 (oper.); 7/5/50, 20.0; 8/3/50, 20.0; 8/31/50, 18.8; 10/2/50, 17.9; 10/30/50, 17.5; 3/28/51, 10.6; 11/15/51, 16.6; 3/31/52, 9.5; 9/10/52, 15.2; 11/10/52, 14.9; 3/25/53, 13.4.

4N/6E-20H1--Reference point-top of casing, elevation 30 feet. 0.11 mile west of Davis Road, 0.49 mile south of Peltier Road. 4/1/49, 17.6; 5/2/49, 17.5; 6/1/49, 19.4; 7/1/49, 21.0; 8/3/49, 18.9; 9/1/49, 18.0; 10/4/49, 18.1; 5/1/50, 36.4 (oper.); 6/2/50, 38.1 (oper.); 6/29/50, 18.5; 8/1/50, 19.6; 9/6/50, 18.2; 10/2/50, 17.6; 9/10/52, 7.4; 11/6/52, 9.7; 3/26/53, 10.2.

4N/6E-20Q1--Reference point-top of board floor over well, elevation 31.0 feet. 0.85 mile south of Peltier Road, 0.46 mile west of Davis Road. 10/19/48, 10.5; 1/17/49, 11.6; 3/30/49, 12.6; 10/18/49, 11.4; 11/22/49, 11.9; 1/8/50, 13.6; 3/23/50, 13.2; 10/31/50, 11.0; 3/27/51, 8.2; 11/14/51, 11.0; 4/1/52, 7.0; 9/10/52, 7.4; 11/6/52, 9.7; 3/26/53, 10.2.

4N/6E-21I3--Reference point-top of casing, elevation 29.5 feet. 0.7 mile south of Peltier Road, 0.39 mile east of Davis Road. 10/19/48, 9.3; 1/17/49, 11.7; 3/30/49, 11.6; 10/18/49, 10.0; 11/22/49, 10.5; 1/9/50, 12.4; 3/23/50, 12.0.

4N/6E-22M1--Reference point-top of concrete pit lining, elevation 38 feet. 1.11 miles west of Sacramento Road, 0.7 mile south of Peltier Road. 10/19/48, 24.4; 1/19/49, 23.3; 3/30/49, 22.3; 10/18/49, 24.5; 11/23/49, 23.8; 1/9/50, 23.6; 3/23/50, 22.8; 10/31/50, 24.6; 3/26/51, 14.2; 11/14/51, 22.6; 3/31/52, 14.9; 11/5/52, 21.8; 3/27/53, 21.6.

4N/6E-22L1--Reference point-top of floor over casing, elevation 29 feet. 0.20 mile west of May Road, 0.41 mile north of Acampo Road. 4/1/49, 22.7; 5/2/49, 22.5; 6/1/49, 24.1; 7/1/49, 33.2; 8/3/49, 27.1; 9/1/49, 26.4; 10/4/49, 25.6.

4N/6E-22K1--Reference point-hole in pump base, elevation 30 feet, 0.49 mile west of Sacramento Road, 0.41 mile north of Acampo Road. 4/1/49, 27.1; 5/2/49, 39.0 (oper.); 6/1/49, 44.2 (oper.); 7/1/49, 52.0 (oper.); 8/2/49, 37.6 (oper.); 9/1/49, 42.7 (oper.); 10/4/49, 31.2.

4N/6E-23M1--Reference point-top of casing, elevation 44 feet. 0.31 mile north of Acampo Road, west side of Sacramento Road. 10/19/48, 33.2; 1/19/49, 29.9; 3/30/49, 28.7; 10/19/49, 32.3; 11/28/49, 31.0; 1/12/50, 29.7.

4N/6E-23J1--Reference point-top of I-beam supporting pump, elevation 50 feet. 0.64 mile east of Sacramento Road, 0.45 mile north of Acampo Road. 10/21/48, 40.9; 1/19/49, 37.7; 3/28/49, 35.9; 10/18/49, 39.6; 11/23/49, 38.4; 1/9/50, 37.1; 3/23/50, 37.6; 11/1/50, 40.7; 3/27/51, 33.6; 11/15/51, 39.1; 3/31/52, 32.8; 11/12/52, 34.5; 3/27/53, 50.0.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements made by Division of Water Resources
(Depths to water in feet measured from a reference point)

4N/6E-24F1--Reference point-south side of pump, elevation 55 feet. 0.44 mile south of Peltier Road, 0.5 mile west of U.S. Highway 99. 10/21/48, 45.1; 1/18/49, 41.0; 2/17/49, 41.1; 3/30/49, 39.9; 5/4/49, 41.9; 9/5/49, 46.4; 10/7/49, 44.3; 10/17/49, 43.7; 11/19/49, 42.0; 1/9/50, 41.0; 2/16/50, 39.4; 3/29/50, 39.7; 5/5/50, 41.9; 6/2/50, 51.0 (oper.); 7/5/50, 53.8 (oper.); 8/4/50, 55.1 (oper.); 8/31/50, 49.7; 10/4/50, 50.0; 11/1/50, 45.2; 3/26/51, 37.9; 11/14/51, 40.9; 3/31/52, 36.3; 11/5/52 38.3; 3/27/53, 38.3.

4N/6E-25F1--Reference point-top of floor, elevation 51 feet. 0.41 mile south of Acampo Road, east side of Southern Pacific Railroad tracks. 10/21/48, 35.9; 1/26/49 34.1; 3/30/49, 31.2; 10/21/49, 34.1; 1/9/50, 32.3; 11/1/50, 35.2; 11/14/51, 31.8; 3/31/52, 28.2; 11/12/52, 29.3.

4N/6E-25R1--Reference point-hole in pump base, elevation 55 feet. 0.05 mile west of U. S. Highway 99, 0.03 mile north of Woodbridge Road. 10/21/48, 34.1; 1/18/49, 32.3; 2/17/49, 32.2; 3/30/49, 31.8; 5/4/49, 37.3; 6/6/49, 37.5; 7/6/49, 36.9; 8/1/49, 36.8; 9/5/49, 34.3; 10/7/49, 33.6; 10/19/49, 33.3; 11/23/49, 32.5; 1/9/50, 32.1; 2/16/50, 32.2; 3/29/50, 37.5; 5/5/50, 40.1; 6/2/50, 37.9; 7/5/50, 37.8; 8/4/50, 37.7; 8/31/50, 37.5; 10/4/50, 35.2; 11/1/50, 34.0; 3/26/51, 29.1; 11/14/51, 31.7; 3/31/52, 28.7; 11/12/52, 29.7; 3/27/53, 31.5.

4N/6E-26L1--Reference point-top of concrete floor at east side of pump base, elevation 46 feet. 0.27 mile north of Woodbridge Road, 0.30 mile east of Sacramento Road. 10/19/48, 24.1; 1/18/49, 23.8; 3/30/49, 23.4; 10/18/49, 23.7; 11/23/49, 23.2; 1/9/50, 24.1; 11/1/50, 24.2; 3/29/51, 18.2; 11/15/51, 21.7; 3/31/52, 18.8; 11/12/52, 20.4; 3/27/53, 21.3.

4N/6E-27D2--Reference point-hole in pump base, elevation 32 feet. 1.03 miles west of Sacramento Road, 0.2 mile south of Acampo Road. 10/19/48, 14.9; 1/19/49, 14.0; 3/30/49, 12.8; 10/18/49, 14.9; 11/21/49, 14.1; 1/9/50, 14.0; 3/23/50, 13.1; 10/31/50, 14.8; 3/26/51, 6.1; 11/14/51, 13.1; 3/21/52, 6.5; 11/5/52, 8.0.

4N/6E-29A1--Reference point-top of cement floor, elevation 33.1 feet. 0.8 mile north of Woodbridge Road, 0.03 mile west of Davis Road. 10/20/48, 9.3; 1/17/49, 11.9; 3/30/49, 12.8; 10/18/49, 11.0; 11/22/49, 11.0; 1/9/50, 15.0; 3/23/50, 13.3; 10/31/50, 9.1; 3/26/51, 6.5; 11/14/51, 9.4; 4/1/52, 6.3; 9/10/52, 5.6; 11/10/52, c.n.m.

4N/6E-29N1--Reference point-top of flange of check valve, elevation 26.7 feet. 200 feet east of Telegraph Road, 0.25 mile north of Woodbridge Road. 10/15/48, 7.4; 1/21/49, 7.5; 2/17/49, 7.6; 3/28/49, 6.8; 5/4/49, 6.4; 6/2/49, 6.1; 7/6/49, 7.1; 8/1/49, 7.4; 9/5/49, 7.3; 10/7/49, 7.4; 10/17/49, 7.5; 11/21/49, 7.4; 1/11/50, 7.9; 2/16/50, 7.4; 3/24/50, 7.9; 5/5/50, 7.1; 6/2/50, 6.1; 7/5/50, 7.3; 8/3/50, 7.3; 8/31/50, 7.5; 10/2/50, 7.6; 10/30/50, 7.6; 3/28/51, 2.0; 11/15/51, 6.7; 4/1/52, 1.1; 9/11/52, 5.9; 11/10/52, 6.4; 3/25/53, 4.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements made by Division of Water Resources
(Depths to water in feet measured from a reference point)

4N/6E-3CD1--Reference point-top of casing, elevation 21.8 feet. East of Ray Road at intersection of Acampo and Ray Roads. 10/21/48, 6.8; 1/21/49, 7.7; 3/29/49, 5.9; 10/18/49, 7.1; 11/21/49, 7.3; 1/12/50, 8.2; 3/29/50, 6.1; 10/31/50, 6.8; 3/27/51, 3.4; 11/14/51, 7.4; 4/1/52, 3.4; 9/10/52, 5.7; 11/10/52, 6.0; 3/25/53, 4.7.

4N/6E-3CM1--Reference point-top of flange of check valve, elevation 25.2 feet. 0.25 mile east of Ray Road, 0.4 mile north of Woodbridge Road. 10/21/48, 10.6; 1/21/49, 10.3; 3/29/49, 8.3; 10/18/49, 10.4; 11/21/49, 10.4; 1/12/50, 10.6; 3/24/50, 8.9; 10/31/50, 11.3; 3/28/51, 6.1; 11/14/51, 10.7; 4/1/52, 5.2; 9/10/52, 10.7; 11/10/52, 10.3.

4N/6E-31C1--Reference point-top of casing, elevation 20.4 feet. 0.6 mile west of Telegraph Road, 0.1 mile south of Woodbridge Road. 10/18/48, 5.6; 1/21/49, 5.0; 3/29/49, 3.0; 10/18/49, 5.1; 11/21/49, 4.8; 1/12/50, 4.9; 3/24/50, 3.3; 10/31/50, 6.0; 3/28/51, 0.5; 11/14/51, 5.3; 4/1/52, -0.5; 9/11/52, c.n.m.; 11/10/52, 4.8.

4N/6E-31A1--Reference point-top of casing, elevation 30.6 feet. 300 feet south and 100 feet west of intersection of Woodbridge and Telegraph Roads. 11/14/29, 12.0; 10/23/30, 11.3; 12/7/31, 11.0; 11/4/32, 10.7; 12/26/33, 10.4; 11/17/34, 10.7; 11/6/36, 11.3; 11/4/37, 11.2; 1/11/39, 11.2; 1/17/41, 7.1; 11/18/47, 11.7; 12/13/48, 12.2; 12/7/49, 11.9; 11/9/50, 12.6; 11/27/51, 11.6.

4N/6E-31H1--Reference point-top of flange of check valve, elevation 28.3 feet. West side of Telegraph Road, 0.6 mile north of Turner Road. 10/14/48, 9.0; 1/21/49, 9.5; 2/17/49, 9.7; 3/28/49, 8.7; 6/2/49, 6.7; 7/6/49, 8.1; 8/1/49, 8.5; 9/5/49, 8.9; 10/7/49, 9.0; 10/17/49, 9.1; 11/21/49, 8.7; 1/11/50, 9.6; 2/16/50, 8.9; 3/24/50, 8.2; 5/5/50, 7.1; 6/2/50, 7.8; 7/5/50, 7.8; 8/3/50, 8.7; 8/31/50, 9.1; 10/2/50, 9.2; 10/30/50, 9.1; 3/28/51, 4.4; 11/15/51, 8.1; 4/1/52, 3.1; 9/10/52, 6.3; 11/10/52, 7.0

4N/6E-31P1--Reference point-top of casing, elevation 21 feet. 400 feet north of Turner Road, 0.5 mile west of Telegraph Road. 10/14/48, 7.5; 1/21/49, 8.2; 3/29/49, 6.9; 10/18/49, 7.7; 11/21/49, 7.7; 1/12/50, 8.2; 3/24/50, 6.6; 10/31/50, 7.9; 3/28/51, 3.6; 11/14/51, 7.4; 4/1/52, 2.0; 9/11/52, 5.8; 11/5/52, 6.7; 3/25/53, 4.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/6E-33L1--Reference point-top of casing, elevation 36 feet. 0.25 mile east of Davis Road, 0.25 mile north of Turner Road. 10/19/48, 11.7; 1/17/49, 12.4; 3/30/49, 12.7; 10/18/49, 11.2; 11/22/49, 11.5; 1/9/50, 12.3; 3/23/50, 12.5; 10/31/50, 11.3; 3/29/51, 7.2; 11/14/51, 10.4; 4/1/52, 6.8; 9/10/52, 7.3; 11/10/52, 9.6.

4N/6E-34E1--Reference point-bottom of shelf above well, elevation 40 feet. 1.12 miles east of Davis Road, 0.51 mile north of Turner Road. 10/18/48, 14.2; 1/17/49, 15.4; 3/30/49, 17.2; 10/18/49, 14.7; 11/22/49, 14.8; 1/13/50, 16.3; 3/22/50, 16.6; 11/1/50, 14.5; 3/29/51, 10.6; 11/15/51, 13.1; 4/1/52, 12.0; 9/10/52, 11.6; 11/12/52, 13.0; 3/26/53, 14.1.

4N/6E-36G1--Reference point-slot in concrete base, elevation 61 feet. 0.29 mile west of U. S. Highway 99, 0.5 mile south of Woodbridge Road. 10/26/48; 36.0; 1/18/49, 36.4; 2/17/49, 36.9; 3/30/49, 36.2; 7/6/49, 34.6; 8/1/49, 35.8; 9/5/49, 35.2; 10/7/49, 35.7; 10/20/49, 35.8; 11/23/49, 35.5; 1/9/50, 36.5; 2/15/50, 36.3; 6/2/50, 50.7 (oper.); 7/5/50, 36.1; 8/4/50, 36.9; 8/31/50, 36.3; 10/4/50, 36.5; 11/1/50, 36.2; 3/29/51, 33.0; 11/14/51, 34.8; 11/12/53, 33.6.

4N/7E-1D1--Reference point-top of floor, elevation 106.4 feet. 0.05 mile east of Elliot Road, south side of Liberty Road. 10/26/48, 55.6; 1/24/49, 54.5; 3/30/49, 53.9; 10/19/49, 58.8; 11/25/49, 56.7; 1/12/50, 56.1; 3/28/50, 55.2; 11/2/50, 60.2; 3/27/51, 57.0; 11/15/51, 59.0; 4/2/52, 56.1; 11/12/52, 60.2; 3/24/53, 58.4.

4N/7E-1A1--Reference point-hole in pump base, elevation 107.0 feet. 0.70 mile east of Elliot Road, 0.11 mile south of Liberty Road. 11/23/49, 61.8; 3/28/50, 59.3.

4N/7E-2C1--Reference point-top of casing, elevation 96 feet. 0.38 mile east of Sowles Road, 0.15 mile south of Liberty Road. 11/25/48, 55.8; 1/21/49, 53.4; 3/31/49, 52.3; 10/21/49, 61.5; 11/23/49, 57.2; 1/10/50, 56.0; 3/29/50, 54.8; 11/2/50, 54.1; 3/27/51, 51.4; 11/16/51, 59.8; 4/3/52, 55.8; 11/12/52, 57.8; 3/24/53, 56.1.

4N/7E-4B11--Reference point-top of casing, elevation 88.1 feet. South side of Elliot Road, 0.32 mile west of Bruella Road. 11/23/49, 53.1; 3/29/50, 51.7; 11/2/50, 53.4; 3/27/51, 52.9; 11/19/51, 52.9; 4/3/52, 52.6; 11/10/53, 57.7; 3/26/53, 54.5.

4N/7E-5E1--Reference point-top of casing, elevation 75 feet. South of Liberty Road, 0.29 mile west of Dustin Road. 10/22/48, 40.0; 1/21/49, 40.3; 3/31/49, 39.8; 10/19/49, 42.4; 11/23/49, 43.4; 1/12/50, 42.8; 3/29/50, 42.1; 3/27/51, 44.2; 11/12/52, Dry.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/7E-5F1--Reference point-top of 8"x8" pump support, elevation 73 feet. 0.28 mile east of Central California Traction Company Railroad, 0.46 mile south of Liberty Road. 10/25/48, 47.7; 1/21/49, 47.0; 3/31/49, 46.3; 10/19/49, 50.6; 11/23/49, 50.2; 1/10/50, 49.8; 3/29/50, 48.9; 11/2/50, 53.6; 3/27/51, 50.2; 11/16/51, 53.4; 4/2/52, 50.5; 11/12/52, 54.4; 3/26/53, 52.7.

4N/7E-6E1--Reference point-top of casing, elevation 61 feet. 0.50 mile south of Liberty Road, 0.03 mile east of Stockton Road. 10/22/48, 43.4; 1/18/49, 42.3; 2/17/49, 42.0; 3/30/49, 41.0; 5/4/49, 46.0; 6/6/49, 43.4; 7/6/49, 45.4; 8/1/49, 48.0; 9/5/49, 48.8; 10/7/49, 47.0; 10/17/49, 46.9; 11/23/49, 46.4; 1/9/50, 45.4; 2/20/50, 44.5; 3/23/50, 43.8; 6/2/50, 51.0; 7/5/50, 47.2; 8/3/50, 51.4; 8/31/50, 49.5; 10/2/50, 49.1; 11/1/50, 48.9; 3/28/51, 43.6; 11/14/51, 49.9; 3/31/52, 44.0; 11/12/52, 49.3; 3/26/53, 45.4.

4N/7E-6R1--Reference point-top of I-beam, elevation 68 feet. West side of Kenefick Road, 0.24 mile north of Collier Road. 4/4/49, 44.0; 5/2/49, 62.0 (oper.); 6/1/49, 54.3; 7/1/49, 67.5 (oper.); 8/1/49, 73.1 (oper.); 9/1/49, 67.7 (oper.) 10/3/49, 66.8 (oper.); 5/1/50, 51.0.

4N/7E-8C1--Reference point-slot in concrete, elevation 61 feet. 0.41 mile east of Central California Traction Company Railroad, 0.09 mile south of Collier Road. 10/26/48, 42.5 (oper.); 1/25/49, 39.9; 3/30/49, 38.5; 10/21/49, 46.4; 11/22/49, 43.7; 1/10/50, 42.1; 3/29/50, 40.6; 11/2/50, 47.7 (oper.); 3/27/51, 41.5; 11/19/51, 46.9; 11/12/52 c.n.m.

4N/7E-9J1--Reference point-hole in pump base, elevation 86.1 feet. 0.36 mile north of Jahant Road, 0.2 mile west of Bruella Road. 10/21/48, 54.1; 1/24/49, 50.6; 3/30/49, 49.3; 10/20/49, 59.4; 11/22/49, 55.0; 1/10/50, 53.0; 3/23/50, 54.1; 11/2/50, 54.8; 3/27/51, 51.2; 11/16/51, 65.8; 4/2/52, 62.2; 11/12/52, 65.1; 3/26/53, 53.7.

4N/7E-10G1--Reference point-hole in pump base, elevation 91.3 feet. 0.44 mile south of Collier Road, 0.63 mile east of Bruella Road. 10/25/48, 56.7; 1/24/49, 54.4; 2/17/49, 53.8; 3/29/49, 47.4; 5/4/49, 55.6; 7/6/49, 59.3; 8/2/49, 71.0 (oper.); 9/5/49, 61.7; 10/7/49, 62.0; 10/20/49, 60.4; 11/22/49, 58.5; 1/10/50, 56.8; 2/16/50, 55.9; 3/23/50, 57.4; 5/4/50, 57.6; 6/1/50, 68.3 (oper.); 7/5/50, 69.3 (oper.); 8/11/50, 67.0; 9/11/50, 65.7; 10/4/50, 64.5; 11/2/50, 63.9; 3/27/51, 55.9; 11/15/51, 61.5; 11/12/52, 61.1; 3/26/53, 47.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/7E-11K1--Reference point-hole in pump base, elevation 105.9 feet. 0.43 mile north of Jahant Road, 0.61 mile east of Sowles Road. 10/25/48, 66.9; 1/25/49, 64.2; 3/30/49, 63.2; 10/20/49, 71.4; 11/22/49, 69.4; 1/10/50, 57.9; 3/23/50, 66.5; 11/1/50, 73.6; 3/27/51, 66.1; 11/15/51, 83.7; 4/2/52, 66.0; 11/12/52, 71.8.

4N/7E-12E1--Reference point-hole in pump base, elevation 107.0 feet. 0.52 mile north of Jahant Road, on east side of Elliot Road. 10/25/48, 66.4; 1/24/49, 64.0; 3/30/49, 63.8; 10/20/49, 70.7; 11/22/49, 68.0; 1/10/50, 61.4; 3/23/50, 65.5; 11/1/50, 71.2; 3/27/51, 65.8; 11/16/51, 70.8; 4/2/52, 61.8; 11/12/52, 71.9; 3/26/53, 67.0.

4N/7E-13Q1--Reference point-top of casing, elevation 110.7 feet. 0.70 mile east of Elliot Road, 150 feet north of Peltier Road. 11/29/48, 70.8; 3/29/50, 64.3.

4N/7E-14B1--Reference point-hole in pump base, elevation 102.4 feet. 0.04 mile south of Jahant Road, 0.54 mile east of Sowles Road. 10/22/48, 65.3; 1/24/49, 62.2; 3/30/49, 61.0; 10/20/49, 71.9; 11/22/49, 66.3; 1/10/50, 64.4; 3/23/50, 67.5; 11/1/50, 69.2; 3/27/51, 64.8; 11/15/51, 68.4; 4/2/52, 62.7; 11/12/52, c.n.m.

4N/7E-14E1--Reference point-hole in side of pump, elevation 94.2 feet. 0.50 mile north of Peltier Road, 0.05 mile east of Sowles Road. 10/25/48, 58.7; 1/24/49, 55.2; 3/30/49, 54.1; 10/20/49, 62.5; 11/22/49, 59.1; 1/10/50, 57.2; 3/29/50, 57.2; 11/1/50, 62.8; 3/27/51, 56.3; 11/16/51, 65.8; 4/2/52, 55.8; 11/12/52, 62.7; 3/26/53, 57.8.

4N/7E-16J1--Reference point-slot in concrete base, elevation 86.9 feet. 0.30 mile north of Peltier Road, on west side of Bruella Road. 10/21/48, 56.3; 1/24/49, 52.6; 2/17/49, 52.3; 3/29/49, 51.6; 4/1/49, 51.4; 5/2/49, 57.1; 6/1/49, 59.3; 7/1/49, 70.1 (oper.); 8/2/49, 73.2 (oper.); 9/1/49, 62.4; 10/4/49, 59.8; 10/20/49, 58.9; 11/22/49, 56.4; 1/10/50, 54.6; 2/16/50, 53.5; 3/23/50, 55.6; 5/4/50, 59.8; 5/31/50, 64.1; 6/29/50, 66.8; 8/1/50, 70.1; 9/6/50, 74.8; 10/2/50, 62.4; 11/1/50, 59.6; 3/26/51, 52.9; 11/15/51, 57.6; 4/1/52, 56.7; 11/12/52, 57.9; 3/26/53, 54.6.

4N/7E-17D1--Reference point-hole in pump base, elevation 73.0 feet. 0.18 mile east of Central California Traction Company Railroad, 0.10 mile south of Jahant Road. 10/21/48, 52.2; 1/19/49, 50.3; 3/29/49, 46.7; 10/20/49, 54.4; 11/22/49, 52.0; 1/10/50, 50.8; 3/24/50, 49.4; 11/1/50, 55.5; 3/26/51, 50.1; 11/15/51, 53.9; 4/1/52, 47.3; 11/12/52, 53.1.

4N/7E-17N1--Reference point-slot in concrete base, elevation 70.6 feet. 0.03 mile east of Central California Traction Company Railroad, 0.20 mile north of Peltier Road. 10/21/48, 52.5; 1/19/49, 49.1; 3/30/49, 47.4; 10/20/49, 52.9; 11/22/49, 51.5; 1/10/50, 50.0; 3/24/50, 49.4; 11/2/50, 53.1; 3/26/51, 49.7; 11/16/51, 52.1; 4/1/52, 49.0; 11/12/52, 50.4; 3/25/53, 46.2.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/7E-18C3--Reference point-top of casing, elevation 63.0 feet. South of Jahant Road, 0.30 mile east of U. S. Highway 99. 1/26/49, 42.1; 3/29/49, 39.4; 10/21/49, 46.1; 11/22/49, 44.3; 1/12/50, 42.7; 3/24/50, 41.7; 11/1/50, 46.3; 3/20/51, 39.1; 4/1/52, 40.0; 11/12/52, 53.1; 3/26/53, 40.7.

4N/7E-19H1--Reference point-slot in base, elevation 66 feet. 0.27 mile south of Peltier Road, west side of Kennefick Road. 4/1/49, 43.2; 5/3/49, 48.2; 6/1/49, 54.3; 7/1/49, 63.3; 8/2/49, 59.9; 9/2/49, 50.9; 10/4/49, 49.3; 5/1/50, 68.7 (oper.); 6/2/50, 52.8; 6/29/50, 73.1 (oper.); 8/1/50, 57.1; 10/2/50, 51.3.

4N/7E-19K1--Reference point-top of I-beam supporting pump, elevation 63 feet. 0.41 mile north of Acampo Road, 0.51 mile east of U. S. Highway 99. 10/21/48, 49.3; 1/19/49, 46.2; 3/30/49, 44.2; 10/20/49, 49.8; 11/22/49, 47.3; 1/10/50, 45.7; 3/29/50, 44.0; 11/2/50, 49.0; 3/27/51, 43.2; 11/16/51, 54.2; 4/1/52, 43.9; 11/12/52, 44.1; 3/25/53, 42.3.

4N/7E-20G1--Reference point-hole in pump base, elevation 73.6 feet. 0.32 mile south of Peltier Road, 0.40 mile west of Dustin Road. 10/22/48, 53.1; 1/25/49, 48.0; 3/30/49, 46.1; 10/20/49, 52.9; 11/22/49, 51.0; 1/10/50, 51.6; 3/24/50, 49.8; 11/2/50, 52.3; 3/27/51, 46.4; 11/16/51, 52.8; 4/1/52, 45.2; 11/12/52, 48.8.

4N/7E-21F1--Reference point-hole in pump base, elevation 79.8 feet. 0.48 mile east of Dustin Road, 0.35 mile south of Peltier Road. 10/22/48, 50.6; 1/24/49, 46.9; 3/30/49, 45.8; 10/20/49, 52.3; 11/22/49, 51.1; 1/10/50, 48.6; 3/23/50, 51.2; 11/2/50, 52.9; 3/26/51, 45.7; 4/1/52, 45.6; 11/12/52, 51.9; 3/26/53, 49.6.

4N/7E-23P1--Reference point-plug hole in pump base, elevation 93 feet. 0.30 mile east of Sowles Road, 0.25 mile north of Acampo Road. 10/25/48, 58.7; 1/25/49, 55.8; 4/1/49, 54.9; 5/2/49, 60.6; 6/2/49, 64.7; 7/1/49, 71.9 (oper.); 8/2/49, 67.3; 9/1/49, 65.4; 10/3/49, 62.9; 10/20/49, 61.5; 11/22/49, 59.2; 1/10/50, 57.6; 3/24/50, 57.3; 11/2/50, 61.8; 3/27/51, 55.3; 11/16/51, 60.6; 4/1/52, 55.9; 11/12/52, 60.8; 3/26/53, 59.0.

4N/7E-25R2--Reference point-top of brick curb under wood floor, elevation 100 feet. West side of Jack Tone Road, 600 feet north of Southern Pacific Railroad. 11/13/29, 51.5; 10/23/30, 52.4; 12/7/31, 54.0; 11/7/32, 53.7; 12/27/33, 53.5.

4N/7E-25R4--Reference point-top of casing, elevation 100 feet. West side of Jack Tone Road, 900 feet north of Southern Pacific Railroad. 11/26/34, 52.7; 11/9/36, 51.5; 11/8/37, 51.0; 1/16/39, 49.4; 1/22/41, 50.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/7E-28J1--Reference point-slot in concrete base, elevation 76 feet. 0.18 mile west of Bruella Road, 0.02 mile south of South Orchard Road. 10/19/48, 44.1; 1/18/49, 41.4; 2/17/49, 41.6; 3/29/49, 41.1; 6/6/49, 49.4; 7/6/49, 51.0; 8/1/49, 51.2; 9/5/49, 47.1; 10/7/49, 45.9; 10/18/49, 44.8; 11/22/49, 43.2; 1/11/50, 42.3; 2/16/50, 41.7; 3/23/50, 45.2; 5/31/50, 48.4; 7/5/50, 54.2; 8/4/50, 51.1; 8/31/50, 50.6; 10/4/50, 47.8; 11/2/50, 45.3; 3/26/51, 38.9; 11/15/51, 47.2; 4/1/52, 34.9; 11/12/52, 42.3.

4N/7E-29R1--Reference point-hole in concrete base, elevation 69 feet. 0.10 mile north of Woodbridge Road, 0.03 mile west of Dustin Road. 10/19/48, 38.7; 1/18/49, 36.4; 3/29/49, 36.1; 10/18/49, 39.7; 11/22/49, 38.1; 1/11/50, 36.8; 3/23/50, 38.6; 11/2/50, 39.9; 3/26/51, 33.7; 11/15/51, 37.4; 4/1/52, 33.8; 11/12/52, 36.3; 3/25/53, 39.2.

4N/7E-30M1--Reference point-bottom of pump base, elevation 57 feet. 0.32 mile north of Woodbridge Road, 0.02 mile east of U. S. Highway 99. 4/4/49, 35.8; 5/3/49, 52.2 (oper.); 6/1/59, 59.7 (oper.); 7/1/49, 68.2 (oper.) 8/2/49, 70.9 (oper.).

4N/7E-30P2--Reference point-top of 2"x4" by crack in floor, elevation 56 feet. 0.40 mile east of U. S. Highway 99, 0.06 mile north of Woodbridge Road. 10/22/48, 36.0; 1/19/49, 34.3; 3/29/49, 34.6; 10/18/49, 35.3; 11/22/49, 34.4; 1/12/50, 32.4; 3/24/50, 35.4; 11/2/50, 35.8; 3/26/51, 35.1; 11/19/51, 33.5.

4N/7E-33H1--Reference point-hole in base, elevation 74 feet. 0.04 mile east of Cherry Road, 0.04 mile north of Schmeidt Road. 10/19/48, 33.8; 1/18/49, 34.3; 3/29/49, 34.0; 5/4/49, 37.5; 7/6/49, 35.0; 8/1/49, 35.4; 9/5/49, 35.2; 10/7/49, 34.6; 10/18/49, 34.5; 11/21/49, 34.1; 1/9/50, 34.7; 3/23/50, 38.4; 5/4/50, 36.1; 5/31/50, 31.0; 7/5/50, 32.6; 8/4/50, 34.6; 8/31/50, 35.2; 10/4/50, 34.5; 10/31/50, 34.6; 11/15/51, 33.8; 4/1/52, 39.6; 11/12/52, 33.0.

4N/7E-34N1--Reference point-slot under wooden base, elevation 77 feet. 0.74 mile north of State Highway 12, 0.01 mile east of Bruella Road. 4/4/49, 45.0; 5/3/49, 62.9 (oper.); 6/2/49, 54.1; 7/1/49, 58.2; 8/1/49, 59.1; 9/1/49, 46.8; 10/4/49, 45.7.

4N/7E-36A1--Reference point-bottom of pump, elevation 95 feet. 300 feet west of intersection of State Highway 88 and Southern Pacific Railroad tracks. 11/9/47, 47.5; 12/14/48, 49.3; 12/7/49, 53.3; 11/6/50, 56.3; 11/28/51, 54.7.

4N/8E-6J12--Reference point-base of hand pump, elevation 120.1 feet. 0.98 mile east of Jack Tone Road, 0.6 mile south of Liberty Road. 11/25/49, 71.2; 3/28/50, 69.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/8E-6N1--Reference point-hole in side of casing, elevation 119 feet. 0.10 mile north of Collier Road, 0.07 mile east of Jack Tone Road. 10/22/48, 72.2; 1/25/49, 70.7; 2/17/49, 69.5; 3/31/49, 68.8; 9/5/49, 82.0 (oper.); 10/7/49, 81.4; 11/23/49, 73.6; 1/10/50, 73.5; 2/16/50, 71.2; 3/28/50, 71.1; 5/4/50, 75.1; 5/31/50, 82.4 (oper.); 7/5/50, 84.7 (oper.) 8/3/50, 85.5 (oper.) 8/31/50, 85.6 (oper.); 10/4/50, 79.7; 11/1/50, 76.7; 3/27/51, 71.5; 11/16/51, 76.6; 4/2/52, 70.1; 11/13/52, 79.2; 3/26/53, 75.3.

4N/8E-8A1--Reference point-hole in well cover, elevation 140.4 feet. 0.10 mile south of Collier Road, 1.7 miles east of Jack Tone Road. 11/25/49, 88.7; 3/28/50, 87.4; 11/1/50, 75.1; 3/29/51, 72.9; 11/19/51, 83.9; 4/2/52, 74.8; 11/13/52, Dry.

4N/8E-10K1--Reference point-4"x6" pump support, elevation 154.3 feet. 400 feet southeast of intersection of State Highway 88 and Collier Road. 11/25/49, 91.6; 3/27/50, 91.3; 11/2/50, 95.6; 3/29/51, 95.3; 4/2/52, 95.9; 11/13/52, Dry; 3/24/53, 99.8.

4N/8E-14L1--Reference point-top of southwest corner of concrete curb, elevation 133.8 feet. 50 feet north of State Highway 12, 0.3 mile east of intersection of State Highway 12 and Clements Road. 11/25/49, 71.3; 3/27/50, 71.1; 11/19/51, 73.1; 4/3/52, 76.2; 11/13/53, 76.1; 3/25/53, 62.8.

4N/8E-16R12--Reference point-hole in well cap, elevation 83.7 feet. 700 feet north and 1,150 feet west of southeast corner of section. 11/25/49, 11.5; 3/27/50, 12.7; 11/2/50, 13.1; 3/29/51, 7.7.

4N/8E-17H1--Reference point-top of casing, elevation 127.5 feet. 1,150 feet west and 1,360 feet south of northeast corner of section. 11/25/49, 27.5; 3/28/50, 76.2; 11/2/50, 80.2; 3/29/51, 78.4; 11/19/51, 80.4; 4/2/52, 77.1; 11/13/52, c.n.m.

4N/8E-18D1--Reference point-crack between pump and concrete base, elevation 116 feet. 0.15 mile south of Jahant Road, 0.05 mile east of Jack Tone Road. 10/22/48, 73.1; 1/21/49, 70.4; 1/17/49, 70.2; 3/31/49, 69.5; 10/20/49, 77.1; 11/23/49, 75.4; 1/10/50, 73.1; 2/16/50, 71.9; 3/24/50, 71.8; 5/4/50, 74.8; 5/31/50, 79.3; 7/5/50, 98.7 (oper.); 8/3/50, 99.0 (oper.); 11/1/50, 77.2; 3/27/51, 72.9; 11/6/51, 76.8; 4/2/52, 72.1; 11/13/52, 78.6; 3/26/53, 74.3.

4N/8E-21N12--Reference point-copper bench mark on pump support, elevation 114.1 feet. 900 feet north and 180 feet east of southwest corner of section. 11/29/49, 73.0; 3/29/50, 74.3; 11/6/50, 69.3; 3/29/51, 68.8; 11/13/52, 69.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

4N/8E-22D1--Reference point-top of brick curb, elevation 103 feet. 0.10 mile north of Highway 88 and 0.10 mile east of Crocker Road. 11/13/29, 62.5; 10/22/30, 65.0; 12/8/31, 67.0; 11/21/32, 65.7; 12/27/33, 67.0; 11/19/34, 68.0; 11/9/36, 66.5; 11/8/37, 66.4; 1/16/39, 65.0; 1/22/41, 66.0; 11/17/41, 73.2; 12/14/48, 79.7; 12/7/49, 86.1; 11/6/50, 68.5; 11/28/51, 69.0.

4N/8E-28M12--Reference point-hole in turbine base, elevation 112.3 feet. 850 feet east and 1,600 feet north of southwest corner of section. 11/29/49, 67.0; 3/29/50, 65.5; 11/6/50, 72.9; 3/29/51, 65.9; 11/19/51, 68.9; 4/3/52, 64.4; 11/13/52, 71.6; 3/25/53, 68.0.

4N/8E-31K11--Reference point-top of casing at north side, elevation 101.3 feet. 0.18 mile east of Tully Road, 0.48 mile north of Brandt Road. 11/29/49, 63.3; 3/29/50, 61.9; 10/30/50, 66.3; 3/29/51, 61.7; 11/19/51, 64.8; 11/13/53, 66.2; 3/25/53, 67.3.

4N/8E-35P1--Reference point-crack in wood cover, elevation 198 feet. 0.50 mile east of Clements Road, 0.07 mile north of Brandt Road. 10/21/48, 90.0; 1/21/49, 87.7; 3/28/49, 88.6; 10/19/49, 91.1; 11/21/49, 91.4; 1/11/50, 91.3; 3/27/50, 91.4.

4N/8E-36P1--Reference point-pipe in base, elevation 161 feet. 1.4 miles east of Clements Road, 0.1 mile north of Brandt Road. 10/21/48, 141.1; 3/29/49, 147.2.

DEPTHS TO GROUND WATER AT MEASUREMENT

WELLS IN SAN JOAQUIN AREA

Measurements Made by Division of Water Resources

(Depths to water in feet measured from reference point)

3N/5E-1F1--Reference point-top of casing, elevation 17 feet. 0.40 mile south of Turner Road, 0.40 mile west of Western Pacific Railroad crossing. 10/18/48, 6.5; 1/21/49, 6.9; 3/29/49, 5.2; 10/18/49, 6.9; 11/21/49, 7.0; 1/12/50, 7.4; 3/29/50, 5.5; 10/31/50, 6.5; 3/27/51, 5.9; 11/14/51, 7.0; 4/1/52, 4.3; 9/11/52, 5.3; 11/5/52, 6.1.

3N/5E-9N1--Reference point-hole in casing, elevation -2feet. North side of State Highway 12, 1.00 mile west of Garden Road. 10/15/48, 4.1; 1/21/49, 4.5; 3/29/49, 5.0; 10/18/49, 5.2; 11/21/49, 5.2; 1/11/50, 4.2; 3/24/50, 5.1.

3N/5E-9R1--Reference point-top of wooden pump stand, elevation -2feet. West of levee in Section 10, 100 feet north of road in rear of dwellings. 11/14/29, 6.0; 10/23/30, 5.3; 12/7/31, 5.9; 11/ 4/ 32, 4.8; 12/26/33, 4.3; 11/17/34, 5.0; 11/9/36, 5.5.

3N/5E-10N1--Reference point-wooden block on top of 6" casing, elevation -2 feet. 0.5 mile west of levee in Section 10, 200 feet north of road. 11/4/37, 7.0; 1/12/39, 6.1; 1/22/41, 3.4.

3N/5E-11H1--Reference point-top of casing, elevation 12 feet. 0.35 mile east of Thorton Road, 0.50 mile north of State Highway 12. 10/18/48, 6.5; 1/20/49, 6.5; 3/29/49, 5.8; 10/18/49, 7.0; 11/21/49, 6.0; 1/12/50, 6.8; 3/29/50, 6.7; 10/31/50, 5.9; 3/29/51, 5.5; 4/2/52, 5.8; 9/11/52, 5.7; 11/12/52, dropped.

3N/5E-12C1--Reference point-top of casing, elevation 18.8 feet. 0.55 mile west of Ray Road, 0.1 mile south of Sargent Road. 10/15/48, 6.2; 1/21/49, 9.9; 3/29/49, 7.5; 10/18/49, 8.4; 11/21/49, 8.5; 1/12/50, 9.7; 3/29/50, 6.5; 10/31/50, 7.1; 3/28/51, 7.3; 11/14/51, 8.1; 4/2/52, 6.7; 9/11/52, 7.0; 11/5/52, 7.6.

3N/5E-12K1--Reference point-top of casing elevation 16.9 feet. 0.40 mile west of and 0.45 mile south of intersection of Sargent and Ray Roads. 10/18/48, 7.0; 1/21/49, 7.9; 3/29/49, 6.2; 10/18/49, 7.7; 11/21/49, 7.5; 1/12/50, 8.7; 3/29/50, 5.6; 10/31/50, 6.1; 3/28/51, 5.3; 11/14/51, 7.1; 4/2/52, 4.4; 9/11/52, 5.2; 11/5/52, 6.3.

3N/5E-13I1--Reference point-top of flange of elbow, elevation 11.7 feet. 0.50 mile west of intersection of Kingdon and Ray Roads. 10/18/48, 4.3; 1/20/49, 5.0; 3/29/49, 3.0; 10/17/49, 4.5; 11/21/49, 5.4; 1/13/50, 6.4; 3/24/50, 3.4; 10/30/50, 5.4; 3/29/51, 1.0; 11/13/51, 5.3; 4/1/52, 1.4; 9/11/52, 6.7; 11/17/52, 5.2.

3N/5E-14B1--Reference point-top of casing, elevation 7 feet. Southwest corner of Thornton Road and State Highway 12. 10/15/48, 3.4; 1/20/49, 3.2; 3/29/49, 3.1; 10/18/49, 3.7; 11/21/49, 3.2; 1/11/50, 3.4; 3/24/50, 6.8; 10/31/50, 3.2; 3/29/51, 3.7; 11/16/51, 3.5; 4/2/52, 3.6; 9/11/52, 4.3; 11/12/52, 4.1; 3/25/53, 4.0.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/5E-16A1--Reference point-ground surface under wooden platform, elevation -2 feet. 3.50 miles east of Terminous, west side of railroad tracts. 11/19/47, 3.8; 9/13/48, 4.6; 11/7/49, 4.8; 11/9/50, 4.5; 11/27/51, 5.3.

3N/5E-24D1--Reference point-top of lower flange on check valve, elevation 6 feet. East side of Thornton Road, 0.80 mile south of railroad tracks. 10/15/48, 6.4; 1/20/49, 7.0; 3/29/49, 5.4; 10/19/49, 7.7; 11/21/49, 7.4; 1/11/50, 8.2; 3/24/50, 4.7; 10/31/50, 7.6; 3/29/51, 6.0; 11/16/51, 3.8; 4/2/52, 1.9; 9/11/52, 4.5; 11/12/52, 3.1; 3/25/53, 3.1.

3N/6E-2G3--Reference point-hole in pump base, elevation 46 feet. 0.04 mile east of Ham Lane, 0.05 mile south of Lake Street in City of Lodi. 10/18/48, 22.4; 1/17/49, 21.8; 2/17/49, 22.5; 3/30/49, 22.6; 5/4/49, 22.1; 6/2/49, 22.9; 7/6/49, 24.2; 8/1/49, 23.6; 9/5/49, 22.7; 10/7/49, 22.0; 10/20/49, 21.8; 11/23/49, 21.4; 1/13/50, 22.6; 2/16/50, 22.7; 5/1/50, 22.6; 5/30/50, 23.3; 7/5/50, 24.2; 8/3/50, 24.5; 8/31/50, 23.8; 10/4/50, 23.4; 11/1/50, 22.4; 3/29/51, 18.7; 11/15/51, 20.8; 4/1/52, 19.4; 9/11/52, 19.9; 11/12/52, 20.4; 3/26/53, 19.6.

3N/6E-3B1--Reference point-top of 2"x12" at north edge of pit, elevation 42 feet. 0.24 mile south of Turner Road, 0.10 mile east of Sacramento Road. 4/1/49, 20.1; 5/2/49, 19.4; 6/1/49, 31.8 (oper.); 7/1/49, 21.3; 8/3/49, 21.5; 9/1/49, 17.7; 10/4/49, 17.2; 4/3/50, 20.2; 5/2/50, 18.8; 6/2/50, 21.8; 6/29/50, 20.6; 8/1/50, 22.0.

3N/6E-4E1--Reference point-top of casing, elevation 27 feet. 0.50 mile north of Sargent Road, 0.27 mile east of Davis Road. 10/15/48, 8.0; 1/17/49, 9.0; 3/30/49, 8.9; 10/18/49, 7.9; 11/22/49, 5.1; 1/9/50, 7.6; 3/23/50, 8.1; 10/31/50, 8.8; 3/1/51, 4.0; 11/14/51, 6.5; 4/1/52, 1.9; 9/10/52, 4.3; 11/10/52, 6.1; 3/25/53, 4.2.

3N/6E-5E1--Reference point-top of casing in pit, elevation 23 feet. 100 feet east of Telegraph Road, 0.55 mile north of Sargent Road. 10/14/48, 12.7; 1/21/49, 12.8; 3/28/49, 12.2; 10/17/49, 12.7; 11/21/49, 13.0; 1/11/50, 13.4; 3/24/50, 11.8; 10/30/50, 13.1; 3/29/51, 8.4; 11/14/51, 11.9; 4/4/52, 5.5; 9/11/52, 10.2; 11/10/52, 10.8; 3/25/53, 9.1.

3N/6E-6M1--Reference point-top of casing elevation 19.2 feet. 0.35 mile north of intersection of Sargent and Ray Roads. 10/18/48, 6.6; 1/21/49, 7.3; 3/29/49, 5.4; 10/18/49, 7.8 (oper.); 11/21/49, 6.9; 1/12/50, 7.5; 3/29/50, 6.6; 11/14/51, 6.8; 4/1/52, 3.0; 9/11/52, 5.0; 11/5/52, 4.6.

3N/6E-7B1--Reference point-top of casing in pit, elevation 19.1 feet. 100 feet south of Sargent Road, 0.40 mile west of Telegraph Road. 10/15/48, 8.7; 1/21/49, 7.9; 3/29/49, 7.0; 10/18/49, 9.0; 11/21/49, 8.4; 1/12/50, 8.0; 3/24/50, 5.3; 10/31/50, 8.8; 3/28/51, 2.9; 4/1/52, 0.6; 9/11/52, 6.9; 11/10/52, 7.0; 3/25/53, 4.2.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-7E1--Reference point--top of casing, elevation 17 feet. 0.55 mile north of State Highway 12, 0.1 mile east of Ray Road. 10/18/48, 9.6; 1/21/49, 10.0; 3/29/49, 8.4; 10/18/49, 10.1; 11/21/49, 9.9; 1/12/50, 10.5; 3/29/50, 4.7; 10/31/50, 6.4; 3/29/51, 2.0; 11/13/51, 6.1; 4/1/52, 1.2; 9/11/52, 4.6; 11/5/52, 5.3; 3/25/53, 4.0.

3N/6E-7H3--Reference point--top of casing, elevation 23.7 feet. West of Telegraph Road, 0.44 mile north of State Highway 12. 10/18/48, 15.2; 1/21/49, 13.5; 3/28/49, 12.6; 10/17/49, 15.2; 11/21/49, 14.5; 1/11/50, 13.7; 3/24/50, 13.1; 10/30/50, 15.4; 3/29/51, 8.8; 11/14/51, 13.8; 4/1/52, 5.9; 9/11/52, 14.0; 11/10/52, oper.

3N/6E-8D1--Reference point--crack in base boards, elevation 25 feet. 0.24 mile east of Telegraph Road, 0.09 mile south of Sargent Road. 4/1/49, 13.1; 5/3/49, 22.5 (oper.); 6/1/49, 23.1 (oper.); 7/1/49, 15.5; 8/3/49, 27.5 (oper.); 9/1/49, 15.9; 10/3/49, 15.1.

3N/6E-8E1--Reference point--top of casing, elevation 23 feet. 0.38 mile south of Sargent Road, 0.12 mile east of Telegraph Road. 4/1/49, 9.4; 5/3/49, 9.8; 6/1/49, 11.1; 7/1/49, 13.9; 8/3/49, 18.2; 9/1/49, 13.4; 10/4/49, 12.1.

3N/6E-8F1--Reference point--hole in pump base, elevation 25 feet. 0.43 mile south of Sargent Road, 0.48 mile west of Davis Road. 4/1/49, 13.8; 5/3/49, 15.2; 6/1/49, 17.3; 7/1/49, 15.7; 8/3/49, 30.1 (oper.); 9/1/49, 16.8; 10/3/49, 15.0; 5/1/50, 13.5; 6/2/50, 13.5; 6/29/50, 29.5 (oper.); 8/1/50, 18.2; 9/6/50, 29.9 (oper.); 10/2/50, 16.9.

3N/6E-8M1--Reference point--east edge of pit lining, elevation 24 feet. 0.24 mile east of Telegraph Road, 0.51 mile south of Sargent Road. 4/1/49, 13.1; 5/3/49, 14.1; 6/1/49, 13.8; 7/1/49, 16.5; 8/3/49, 26.5 (oper.); 9/1/49, 17.4; 10/3/49, 16.2; 5/1/50, 13.3; 6/2/50, 14.0; 6/29/50, 26.2 (oper.); 8/1/50, 18.2; 9/6/50, 27.3 (oper.); 10/2/50, 17.2.

3N/6E-9F1--Reference point--top of concrete pit lining, elevation 32 feet. 0.36 mile south of Sargent Road, 0.05 mile west of Moore Road. 10/5/48, 15.1; 1/17/49, 17.2; 3/30/49, 16.8; 10/18/49, 16.1; 11/22/49, 14.7; 1/9/50, 16.4; 3/23/50, 16.1; 10/31/50, 16.6; 3/30/51, 12.4; 11/14/51, 14.0; 4/1/52, 10.9; 9/10/52, 11.8; 11/10/52, 14.3; 3/25/53, 14.2.

3N/6E-9R2--Reference point--square slot in top of casing, elevation 29 feet. 0.12 mile north of State Highway 12, 0.75 mile east of Davis Road. 10/15/48, 14.6; 1/17/49, 16.2; 3/30/49, 15.6; 10/18/49, 16.1; 11/22/49, 16.0; 1/9/50, 16.0; 3/23/50, 14.7; 10/31/50, 15.7; 3/30/51, 11.1; 11/14/51, 13.3; 4/1/52, 10.0; 9/10/52, 11.7; 11/10/52, 12.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-10F1--Reference point-top of 2"x4" over pit supporting roof, elevation 31 feet. 0.24 mile south of Sargent Road, 0.05 mile west of lower Sacramento Road. 10/15/48, 16.3; 10/19/49, 16.5; 11/22/49, 16.6; 11/1/50, 17.4; 3/30/51, 11.6; 4/2/52, 14.6; 9/11/52, 12.0; 11/12/52, 12.7.

3N/6E-11E1--Reference point-plug in base, elevation 40.6 feet. 0.44 mile south of Sargent Road, 0.80 mile west of Quimbey Avenue. 10/18/48, 18.5; 1/17/49, 19.3; 3/21/49, 19.3; 10/21/49, 19.6; 11/23/49, 19.4; 1/12/50, 20.2; 3/29/50, 21.1; 11/1/50, 21.0; 3/20/51, 17.4; 11/15/51, 20.4; 4/1/52, 20.2; 11/12/53, 20.1.

3N/6E-11J1--Reference point-slot in concrete base, elevation 43.1 feet. 0.55 mile south of Sargent Road, 0.55 mile west of Quimbey Avenue. 10/18/48, 26.9; 1/17/49, 24.9; 3/31/49, 24.4; 5/4/49, 29.8; 6/2/49, 30.0; 7/6/49, 30.3; 8/1/49, 30.2; 9/5/49, 28.3; 10/7/49, 27.5; 10/17/49, 27.1; 11/23/49, 26.9; 1/12/50, 25.5; 2/16/50, 25.2; 3/22/50, 27.2; 5/4/50, 30.4; 5/31/50, 30.8; 7/5/50, 32.6; 8/3/50, 31.6; 8/31/50, 31.3; 10/4/50, 29.2; 11/1/50, 28.2; 3/30/51, 25.1; 11/15/51, 25.1; 4/1/52, 22.0; 9/11/52, 25.5; 11/12/52, 23.8; 3/26/53, 22.8.

3N/6E-12P1--Reference point-top of casing at concrete foundation, elevation 48 feet. Northwest corner of State Highway 12 and Stockton Avenue. 12/13/48, 34.3; 12/7/49, 35.6; 11/9/50, 38.2; 11/27/51, 35.3.

3N/6E-13B1--Reference point-ground level, elevation 47 feet. South side of State Highway 12, 550 feet east of Stockton Avenue. 11/19/47, 36.5.

3N/6E-13A1--Reference point-top of concrete well pit, elevation 46 feet. 50 feet south of State Highway 12, 1300 feet east of Stockton Avenue. 11/13/29, 26.5; 10/23/30, 27.9; 12/9/31, 27.8; 11/19/32, 27.9; 12/26/33, 27.5; 11/19/34, 28.7; 11/9/36, 26.8; 11/4/37, 25.8; 1/11/39, 22.8; 1/17/41, 25.2.

3N/6E-13I1--Reference point-hole in side of pump, elevation 43 feet. 0.08 mile west of Stockton Avenue, 0.27 mile north of Harney Lane. 4/1/49, 31.7; 5/3/49, 36.5; 6/1/49, 59.1 (oper.); 7/1/49, 58.8 (oper.); 8/1/49, 39.4; 5/1/50, 38.3; 6/1/50, 61.4 (oper.); 7/5/50, 60.9 (oper.); 8/1/50, 41.0; 9/12/52, 30.8; 11/12/52, 30.3.

3N/6E-13K1--Reference point-hole in pump base. elevation 44 feet. 0.06 mile east of U. S. Highway 99, 0.28 mile north of Harney Lane. 10/15/48, 34.2; 1/17/49, 32.3; 3/31/49, 32.0; 10/20/49, 34.0; 11/23/49, 33.4; 1/13/50, 32.4; 3/22/50, 35.0; 11/1/50, 34.7; 3/30/51, 37.2; 11/15/51, 32.6; 3/31/52, 28.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-14N1--Reference point-top of south floor joist, elevation 34 feet.
0.13 mile north of Harney Lane, 0.35 mile west of Woodbridge Canal lateral.
11/29/49, 17.8; 3/29/50, 18.9.

3N/6E-15L1--Reference point-top of casing, elevation 26 feet. 0.07 mile west of Sacramento Road, 0.40 mile north of Harney Lane. 10/15/48, 8.9; 1/18/49, 9.1; 3/31/49, 8.4; 10/19/49, 9.3; 11/22/49, 8.9; 1/13/50, 9.2; 3/22/50, 8.9; 11/1/50, 10.5; 3/30/51, 6.0; 11/16/51, 7.4; 4/2/52, 3.3; 9/12/52, 7.9; 11/12/52, 7.4; 3/26/53, 3.26.

3N/6E-17 H1--Reference point-top of I beam supporting pump, elevation 24 feet. 0.43 mile south of State Highway 12, 0.06 mile west of Davis Road. 10/15/48, 18.6; 1/17/49, 16.2; 3/30/49, 14.4; 10/18/49, 19.1; 11/22/49, 18.2; 1/9/50, 16.7; 3/23/50, 15.2; 10/31/50, 19.3; 3/30/51, 11.4; 11/14/51, 16.9; 4/1/52, 8.6; 9/10/52, 17.7; 11/10/52, 16.7; 3/26/53, 12.8.

3N/6E-18H1--Reference point-top of brick pit on north side above casing, elevation 21.4 feet. West side of Telegraph Road, 0.25 mile north of Kingdon Road. 10/14/48, 17.5; 1/21/49, 13.8; 3/28/49, 12.2; 10/17/49, 20.3; 11/21/49, 16.0; 1/11/50, 14.5; 3/24/50, 12.3; 10/30/50, 17.7; 3/30/51, 9.6; 11/13/51, 15.7; 4/1/52, 6.3; 9/11/52, oper.; 11/ 5/52, 15.6; 3/25/53, 10.9.

3N/6E-18L1--Reference point-top of flange on elbow, elevation 13.5 feet. Southwest corner of intersection of Kingdon and Neeley Roads. 10/18/48, 9.3; 1/20/49, 7.4; 3/28/49, 5.5; 10/17/49, 10.6; 11/21/49, 8.9; 1/11/50, 8.0; 3/24/50, 5.7; 10/30/50, 10.5; 11/13/51, 9.3; 4/1/52, 0.1; 9/11/52, oper.; 11/12/52, 9.4; 3/25/53, 6.4.

3N/6E-20E2--Reference point-top of casing in pit, elevation 9 feet. 200 feet east of Telegraph Road, 0.55 mile north of Armstrong Road. 10/14/48, 10.7; 1/20/49, 7.1; 3/28/49, 4.1; 10/21/49, 10.9; 11/21/49, 9.9; 1/11/50, 8.2; 3/24/50, 4.6; 10/30/50, 12.2; 3/29/51, 10.0; 11/13/51, 10.7; 4/1/52, 1.5; 9/11/52, 14.2; 11/5/52, 11.7; 3/25/53, 4.2.

3N/6E-21 M1--Reference point-top of casing, elevation 18 feet. 0.13 mile east of Davis Road, 0.37 mile north of Armstrong Road. 10/15/48, 16.9; 1/17/49, 13.1; 3/31/49, 9.1; 10/18/49, 17.5; 11/22/49, 16.1; 1/9/50, 14.2; 3/23/50, 11.0; 10/31/50, 18.5; 3/30/51, 7.6; 11/14/51, 15.5; 4/1/52, 2.3; 9/11/52, 17.5; 11/10/52, 15.9; 3/26/53, 8.0.

3N/6E-22F1--Reference point-top of 2"x4" across pit next to discharge pipe, elevation 27 feet. 0.15 mile east of Sacramento Road, 0.45 mile south of Harney Lane. 10/18/48, 19.3; 1/18/49, 17.7; 3/31/49, 17.1; 10/19/49, 19.9; 11/22/49, 19.0; 1/13/50, 18.2; 3/22/50, 17.9; 11/1/50, 20.2; 3/30/51, 14.8; 11/16/51, 16.9; 4/2/52, 10.8; 11/12/53, 16.3.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-24H1--Reference point-slot in concrete base, elevation 46 feet. 0.08 mile west of U. S. Highway 99, 0.31 mile south of Harney Lane. 10/15/48, 37.1; 3/31/49, 33.9; 10/20/49, 36.9; 11/23/49, 35.9; 1/13/50, 34.6; 11/1/50, 37.5; 11/15/51, 34.4; 3/31/52, 30.3; 9/12/52, 33.9; 11/12/52, 31.7.

3N/6E-21M1--Reference point-top of casing, elevation 40 feet. 0.19 mile east of West Lane on west side of Southern Pacific Railroad, 0.35 mile north of Armstrong Road. 10/18/48, 26.3; 1/17/49, 26.1; 3/31/49, 26.2; 10/20/49, 26.3; 11/23/49, 26.2; 1/13/50, 26.5; 3/22/50, 27.1; 11/1/50, 27.2; 3/30/51, 25.0; 11/15/51, 24.3; 3/31/52, 22.2; 9/12/52, 22.6; 11/12/52, 22.2; 3/26/53, 23.0.

3N/6E-26G1--Reference point-top of casing, elevation 36 feet. 0.28 mile south of Armstrong Road, 0.55 mile west of Southern Pacific Railroad. 10/18/48, 19.8; 1/17/49, 22.2; 3/31/49, 22.9; 10/20/49, 20.7; 11/23/49, 21.0; 1/16/50, 22.8; 3/22/50, 22.4; 11/1/50, 21.7; 3/30/51, 15.9; 11/15/51, 19.2; 4/1/52, 18.2; 9/12/52, 15.6; 11/12/52, 17.4.

3N/6E-27D1--Reference point-top of 2"x12" door sill entrance to pump house, elevation 25 feet. South side of Armstrong Road, 0.15 mile west of Sacramento Road. 10/14/48, 16.7; 1/18/49, 15.2; 3/31/49, 14.2; 10/19/49, 17.1; 11/22/49, 16.3; 1/11/50, 15.7; 3/29/50, 14.6; 11/1/50, 17.6; 3/30/51, 11.1; 11/16/51, 14.8; 4/1/52, 7.8.

3N/6E-29C1--Reference point-hole in pump base, elevation 17.7 feet. South side of Armstrong Road, 0.45 mile east of Telegraph Road. 10/14/48, 22.7; 1/20/49, 15.4; 3/29/49, 10.9; 11/22/49, 22.9; 1/11/50, 17.0; 3/23/50, 12.1; 10/30/50, 23.2; 3/30/51, 15.9; 11/13/51, 20.7; 4/1/52, 4.5; 11/12/52, oper.

3N/6E-29B1--Reference point-southwest curb of pit, elevation 18.8 feet. South side of Armstrong Road, 0.27 mile west of Davis Road. 10/14/48, 17.0; 1/26/49, 15.7; 3/29/49, 11.3; 10/18/49, 22.2; 11/22/49, 20.1; 1/11/50, 17.2; 3/23/50, 13.1.

3N/6E-29J1--Reference point-hole in pump base, elevation 18.3 feet. West side of Western Pacific Railroad, 0.35 mile north of Davis Road. 10/23/48, 17.7; 1/21/49, 13.7; 3/29/49, 10.9; 10/18/49, 18.8; 11/22/49, 16.2; 1/9/50, 14.7; 3/23/50, 11.5; 10/30/50, 18.6; 3/30/51, 7.3; 11/16/51, 16.7; 4/1/52, 4.2; 9/15/52, 31.7; 11/12/52, 19.2; 3/26/53, 11.3.

3N/6E-29P1--Reference point-pipe in pump base, elevation 14 feet. 0.85 mile south of Armstrong Road, 0.49 mile east of Telegraph Road. 5/3/49, 12.7; 6/1/49, 14.0; 7/1/49, 19.3; 8/1/49, 35.9 (oper.); 9/2/49, 25.3; 10/4/49, 18.0; 5/1/50, 13.1; 6/2/50, 14.9; 6/29/50, 16.3; 8/1/50, 34.8 (oper.); 9/6/50, 21.7; 10/2/50, 19.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-30J1--Reference point-hole in pump base, elevation 14.3 feet. West side of Telegraph Road, 0.40 mile north of junction with Thornton Road. 10/14/48, 16.5; 1/20/49, 12.3; 3/28/49, 9.0; 10/17/49, 17.4; 1/11/50, 13.4; 3/24/50, 9.3; 10/30/50, 17.1; 3/29/51, 5.8; 11/13/51, 16.1; 4/1/52, 3.7; 9/11/52, oper.; 11/5/52, oper.; 3/25/53, 10.1.

3N/6E-31P1--Reference point-top of bottom flange of check valve, elevation 8 feet. 0.70 mile west of intersection of Telegraph and Eight Mile Roads. 10/18/48, 8.2; 1/20/49, 6.9; 3/29/49, 3.4; 10/21/49, 8.7; 11/21/49, 8.2; 1/12/50, 7.5; 3/24/50, 4.8; 11/2/50, 8.7; 11/16/51, 7.9.

3N/6E-32G1--Reference point-top of casing elevation 17.9 feet. 0.40 mile west of Davis Road, 0.25 mile south of Western Pacific Railroad crossing. 10/23/48, 15.1; 1/21/49, 13.0; 3/29/49, 10.4; 10/18/49, 15.9; 11/21/49, 14.7; 1/9/50, 13.7; 3/23/50, 10.8; 10/30/50, 17.0; 3/30/51, 7.6; 11/13/51, 16.5; 4/1/52, 5.2; 9/11/52, 22.3; 11/12/52, 19.9; 3/26/53, 12.0.

3N/6E-32M1--Reference point-top of boards over casing, elevation 12 feet. 0.03 mile east of Telegraph Road, 0.35 mile north of Eight Mile Road. 10/15/48, 10.0; 1/20/49, 9.8; 3/29/49, 7.4; 10/17/49, 10.9; 11/21/49, 11.0; 1/11/50, 10.4; 3/24/50, 7.8; 11/2/50, 9.9; 3/29/51, 3.9.

3N/6E-33H1--Reference point-top of casing elevation 22.3 feet. 0.83 mile north of Eight Mile Road, 0.60 mile east of Davis Road. 10/18/48, 13.5; 1/21/49, 13.4; 3/29/49, 12.3; 10/18/49, 13.2; 11/22/49, 12.9; 1/9/50, 13.5; 3/23/50, 11.6.

3N/6E-33M1--Reference point-top of 4"x10" at east side of discharge pipe, elevation 19.9 feet. 0.4 mile north of Eight Mile Road, 0.15 mile east of Davis Road. 10/14/48, 14.9; 1/17/49, 12.7; 3/31/49, 10.7; 10/18/49, 13.9; 11/22/49, 12.8; 1/9/50, 12.8; 3/23/50, 10.5; 10/30/50, 14.4; 3/30/51, 7.7; 11/13/51, 14.7; 4/1/52, 5.6; 11/12/52, 17.0.

3N/6E-34E1--Reference point-top of casing, elevation 24 feet. 0.51 mile north of Eight Mile Road, east side of Sacramento Road. 11/29/49, 12.5; 3/29/50, 12.2; 11/2/50, 12.6; 3/30/51, 9.1; 11/16/51, 11.5; 4/1/52, 7.0; 11/10/52, 11.4.

3N/6E-34M1--Reference point-bottom of pump base, elevation 25 feet. West side of Sacramento Road, 0.49 mile north of Eight Mile Road. 4/1/49, 13.7; 5/2/49, 13.8; 6/1/49, 36.7 (oper.); 7/1/49, 38.8 (oper.); 8/1/49, 13.2; 9/1/49, 12.1; 10/3/49, 13.1.

3N/6E-35D1--Reference point-top of casing elevation 28 feet. 0.84 mile north of Eight Mile Road, 0.90 mile east of Sacramento Road. 10/14/48, 14.4; 1/17/49, 15.3; 3/29/49, 15.4; 10/20/49, 14.6; 11/23/49, 14.8; 1/13/50, 15.4; 3/22/50, 15.2; 11/1/50, 15.0; 3/30/51, 12.3; 11/15/51, 13.4; 4/1/52, 9.8; 9/8/52, 9.8; 11/5/52, 11.1; 3/26/53, 6.0.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/6E-35D1--Reference point-top of casing, elevation 29.0 feet. 0.1 mile north of Eight Mile Road, 1.05 miles east of Sacramento Road. 10/14/48, 16.0; 1/17/49, 17.0; 3/29/49, 16.9; 10/20/49, 16.5; 11/23/49, 16.3; 1/13/50, 17.2; 3/22/50, 16.5; 11/1/50, 16.6; 3/30/51, 12.9; 11/15/51, 13.5; 4/1/52, 10.1; 9/12/52, 8.9; 11/12/52, 11.8; 3/26/53, 11.8.

3N/6E-36D2--Reference point-edge of flooring over casing elevation 36.1 feet. 0.81 mile north of Eight Mile Road, 0.04 mile west of Southern Pacific Railroad. 10/14/48, 22.1; 1/18/49, 23.3; 3/29/49, 22.5; 10/20/49, 23.1; 11/23/49, 22.9; 1/13/50, 23.8; 3/22/50, 22.0; 11/1/50, 23.2; 3/30/51, 19.1; 11/15/51, 19.9; 4/1/52, 16.4; 11/5/52, Well Destroyed.

3N/6E-36C1--Reference point-top of casing elevation 38.3 feet. 0.17 mile north of Morse Road, 0.51 mile east of U. S. Highway 99. 10/14/48, 28.0; 1/18/49, 26.7; 3/29/49, 25.4; 10/20/49, 28.4; 11/23/49, 27.5; 1/13/50, 27.4; 3/22/50, 26.3; 11/1/50, 28.6; 3/30/51, 22.6; 11/15/51, 25.3; 4/2/52, 20.0; 9/12/52, 23.4; 11/5/52, 23.1.

3N/6E-36H1--Reference point-slot cut in casing above concrete base, elevation 40.3 feet. 0.53 mile north of Eight Mile Road, west side of U. S. Highway 99. 10/14/48, 34.0; 1/18/49, 30.9; 3/29/49, 29.4; 10/20/49, 34.3; 11/23/49, 33.0; 1/1/50, 31.8; 3/22/50, 30.9; 11/1/50, 33.9; 3/30/51, 27.6; 11/15/51, 30.0; 4/1/52, 23.2; 9/12/52, 30.4; 11/10/52, 28.2; 3/26/53, 24.7.

3N/6E-36L1--Reference point-under flange coupling on discharge pipe, elevation 36.5 feet. 0.46 mile north of Eight Mile Road, east side of Douglas Road. 10/14/48, 25.7; 1/18/49, 24.6; 3/31/49, 23.5; 10/20/49, 26.3; 11/23/49, 24.9; 1/13/50, 19.4; 3/22/50, 18.1; 11/1/50, 25.7; 3/30/51, 17.1; 11/14/51, 22.1; 4/1/52, 17.4; 9/12/52, 20.2; 11/12/52, 20.2.

3N/6E-36Q1--Reference point-top of flange, elevation 29.7 feet. 0.13 mile north of Eight Mile Road, 0.50 mile west of U. S. Highway 99. 10/14/48, 18.9; 1/18/49, 18.4; 3/29/49, 17.2; 10/20/49, 19.7; 11/23/49, 18.6; 1/13/50, 18.9; 3/22/50, 17.2; 11/1/50, 19.0; 3/30/51, 13.3; 11/15/51, 16.3; 4/1/52, 10.3; 9/12/52, 12.4; 11/5/52, 14.5; 3/26/53, 11.4.

3N/7E-1C3--Reference point-crack between pump base and concrete base, elevation 91.0 feet. 0.10 mile west of State Highway 88, 0.07 mile south of Brandt Road. 10/22/48, 58.1; 1/24/49, 56.1; 2/17/49, 56.0; 3/28/49, 55.4; 6/6/49, 63.0; 7/6/49, 63.8; 8/1/49, 64.4; 9/5/49, 63.8; 10/7/49, 61.9; 10/18/49, 61.5; 11/22/49, 58.7; 1/10/50, 57.7; 2/16/50, 57.3; 3/24/50, 57.8; 5/4/50, 62.0; 5/31/50, 62.8; 7/5/50, 64.8 (oper.); 8/4/50, 62.7; 8/31/50, 65.9 (oper.); 10/4/50, 63.0; 10/31/50, 61.0; 3/29/51, 58.8; 11/14/51, 6.8; 3/31/52, 56.0; 11/10/52, 61.2; 3/25/53, 57.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-1N3--Reference point-hole in pump base, elevation 85.6 feet. 0.5 mile south of State Highway 12, 0.04 mile west of State Highway 88. 10/22/48, 50.8; 1/24/49, 53.3; 3/28/49, 52.9; 10/18/48, 59.0; 11/22/49, 56.6; 1/10/50, 55.4; 3/27/50, 55.9; 10/31/50, 59.1; 3/29/51, 54.4; 11/14/51, 57.0; 3/31/52, 54.1; 11/10/52, 57.4; 3/25/53, 55.6.

3N/7E-3R1--Reference point-hole in pump base, elevation 76 feet. 0.26 mile east of Locust Road, 0.42 mile south of State Highway 12. 10/18/48, 48.9; 1/18/49, 46.9; 3/29/49, 48.3; 10/18/49, 31.4; 11/21/49, 49.8; 1/10/50, 48.9; 3/23/50, 54.4; 11/2/50, 51.9; 3/30/51, 47.6; 11/15/51, 51.8; 3/31/52, 46.4; 11/12/52, 49.3.

3N/7E-4B1--Reference point-hole in pump base, elevation 73 feet. 0.43 mile north of State Highway 12, 0.02 mile west of Cherry Road. 10/19/48, 40.1; 1/18/49, 40.6; 3/29/49, 43.9; 6/6/49, 47.1; 7/6/49, 47.5; 8/1/49, 45.1; 9/5/49, 44.0; 10/7/49, 42.6; 10/18/49, 42.4; 11/21/49, 41.2; 1/9/50, 42.3; 2/16/50, 42.8; 5/4/50, 55.0; 5/31/50, 54.3; 7/5/50, 48.6; 8/4/50, 47.0; 8/31/50, 46.1; 10/4/51, 43.4; 10/31/50, 42.6; 3/30/51, 47.1; 11/15/51, 41.1; 4/1/52, 43.0; 11/12/52, 40.2.

3N/7E-4P1--Reference point-hole in pump base, elevation 71.4 feet. 0.4 mile south of State Highway 12, west side of Alpine Road. 10/19/48, 42.4; 1/18/49, 42.2; 2/17/49, 52.1; 3/29/49, 49.1; 7/6/49, 47.2; 8/1/49, 48.2; 9/3/49, 45.2; 10/7/49, 44.0; 10/18/49, 43.7; 11/21/49, 42.9; 1/9/50, 45.4; 2/16/50, 45.1; 3/23/50, 59.0; 5/31/50, 62.6 (oper.); 7/5/50, 51.0; 8/4/50, 50.0; 8/31/50, 48.1; 10/4/50, 45.1; 10/31/50, 44.3; 3/30/51, 45.6; 11/15/51, 42.8; 3/31/52, 42.0; 3/25/53, 57.1.

3N/7E-5Q1--Reference point-top of casing, elevation 65 feet. East side of Tecklenburg Road, 0.41 mile south of State Highway 12. 10/19/48, 47.8; 1/18/49, 37.7; 3/29/49, 46.2; 10/18/49, 39.0; 11/11/49, 38.4; 1/9/50, 39.6; 10/31/50, 39.5; 3/30/51, 42.3; 11/15/51, 37.8; 4/1/52, 39.3; 11/12/52, 36.3.

3N/7E-6H1--Reference point-hole in pump base, elevation 58 feet. 0.05 mile east of Myrtle Road, 0.06 mile north of State Highway 12. 10/19/48, 34.8; 1/18/49, 33.4; 3/29/49, 35.6; 10/18/49, 35.9; 11/21/49, 34.1; 1/9/50, 34.1; 10/31/50, 36.1; 3/30/51, 35.7; 11/16/51, 34.1; 4/1/52, 30.6; 11/12/52, 33.9.

3N/7E-7H2--Reference Point -I-beam at top of pit, elevation 60 feet. West side of Central California Traction Company Railroad, 1 mile south of State Highway 12. 10/19/48, 57.2; 1/18/49, 38.9; 3/29/49, 42.3; 10/18/49, 40.2; 11/21/49, 39.9; 1/9/50, 39.5; 10/31/50, 41.2; 3/30/51, 42.7; 11/16/51, 42.3; 4/1/52, 37.7; 11/12/52, 37.4; 3/25/53, 44.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-9H1--Reference point-hole in pump base, elevation 69.2 feet. 0.32 mile east of Alpine Road, 0.65 mile north of Kettleman Road. 10/18/48, 43.8; 1/18/49, 41.5; 3/29/49, 46.1; 10/18/49, 45.4; 11/21/49, 44.0; 1/9/50, 44.3; 3/23/50, 55.3; 10/31/51, 45.3; 11/16/51, 34.1; 3/31/52, 42.3; 11/12/53, 43.2.

3N/7E-9P1--Reference point-top of casing elevation 65.1 feet. 0.22 mile north of Kettleman Road, 0.02 mile west of Alpine Road. 10/18/48, 42.3; 1/18/49, 40.9; 3/29/49, 48.2; 10/18/49, 43.4; 11/21/49, 42.4; 1/9/50, 44.4; 10/31/50, 44.9; 3/29/51, 49.6; 11/15/51, 43.2; 3/31/52, 41.8; 11/12/52, 40.4.

3N/7E-10F1--Reference point-hole in pump base, elevation 71 feet. 0.37 mile north of Newfield Road, 0.07 mile west of Locust Road. 4/4/49, 49.3; 5/3/49, 78.9 (oper.); 6/2/49, 58.6; 7/1/49, 73.2 (oper.); 8/1/49, 54.9; 9/2/49, 52.8; 10/3/49, 50.7; 4/3/50, 55.9; 5/1/50, 79.2 (oper.); 6/1/50, 60.8; 6/29/50, 58.3; 8/1/50, 52.7.

3N/7E-11G1--Reference point-hole in side of base, elevation 78.5 feet. 0.5 mile north of Kettleman Road, east of Tretheway Road. 10/18/48, 56.8; 1/18/49, 50.4; 3/29/49, 50.3; 10/18/49, 55.9; 11/21/49, 54.0; 1/10/50, 52.7; 3/27/50, 53.5; 10/31/50, 56.8; 3/29/51, 51.2; 11/14/51, 55.8; 3/31/52, 50.4; 11/12/52, 56.5.

3N/7E-13L1--Reference point-hole in pump base, elevation 78.2 feet. 0.5 mile west of Jack Tone Road, 0.26 mile north of Harney Lane. 10/14/48, 53.8; 1/21/49, 52.4; 4/4/49, 49.2; 5/3/49, 55.7; 6/2/49, 78.4 (oper.); 7/1/49, 78.8 (oper.); 8/1/49, 59.7; 9/2/49, 61.4; 10/3/49, 58.2; 10/19/49, 57.8; 11/22/49, 53.9; 1/12/50, 52.1; 3/27/50, 52.1; 11/2/50, 58.7; 3/28/51, 51.2; 11/19/51, 60.8; 3/31/52, 50.5; 11/10/52, 56.9.

3N/7E-13N1--Reference point-slot in pump base, elevation 77.4 feet. 0.97 mile west of Jack Tone Road, 0.12 mile north of Harney Lane. 10/14/48, 62.8; 1/21/49, 56.9; 3/28/49, 52.6; 10/19/49, 60.3; 11/22/49, 56.5; 1/11/50, 55.0; 3/24/50, 54.4; 10/30/50, 59.6; 3/28/51, 54.2; 11/13/51, 58.8; 3/31/52, 53.7; 11/10/52, oper.

3N/7E-13J1--Reference point-top of casing, elevation 72 feet. 0.18 mile west of Jack Tone Road, 0.45 mile north of Harney Lane. 11/13/29, 37.5; 10/23/30, 40.3; 12/8/31, 41.0; 11/7/32, 42.8; 12/23/33, 43.2; 11/19/34, 44.7; 11/9/36, 45.3; 11/8/37, 45.1; 1/16/39, 43.1; 1/22/41, 43.9.

3N/7E-13R1--Reference pump -hole flange, elevation 75 feet. 0.10 mile north of Harney Road, west side of Jack Tone Road. 11/19/47, 53.5; 12/13/48, 55.4; 12/7/49, 58.2; 10/30/50, 59.4; 11/28/51, 62.5.

3N/7E-14A1--Reference point-hole in pump base, elevation 76.4 feet. 0.12 mile east of State Highway 88, 0.23 mile south of Kettleman Road. 10/18/48, 54.9; 1/18/49, 51.1; 3/28/49, 50.2; 10/18/49, 58.6; 11/21/49, 55.5; 1/10/50, 53.7; 3/27/50, 52.4; 10/31/50, 58.9; 3/29/51, 53.5; 11/16/51, 58.1; 3/31/52, 52.3; 11/10/52, 57.4; 3/25/53, 53.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-15C1--Reference point-slot in pump base, elevation 70.6 feet. 0.14 mile east of Locust Road, south of Kettleman Road. 10/18/48, 48.5; 1/18/49, 45.4; 3/29/49, 47.4; 10/18/49, 50.8; 11/21/49, 49.0; 1/10/50, 48.1; 3/23/50, 55.2; 10/31/50, 52.3; 3/29/51, 46.3; 11/15/51, 49.9; 3/31/52, 45.6; 11/12/52, 48.2; 3/25/53, 52.2.

3N/7E-15A3--Reference point-slot in pump base, elevation 73.6 feet. 0.13 mile south of Kettleman Road, 0.36 mile east of Locust Road. 10/18/48, 56.5; 1/18/49, 50.5; 3/29/49, 51.2; 10/18/49, 56.3; 11/21/49, 54.4; 1/10/50, 52.7; 10/31/50, 59.1; 3/29/51, 51.6; 11/14/51, 62.2; 3/31/52, 51.3; 11/12/53, 54.2.

3N/7E-15H1--Reference point-plug in pump base, elevation 70 feet. 0.44 mile west of Locust Road, 0.54 mile north of Harney Lane. 10/28/48, 52.0; 1/25/49, 49.6; 3/29/49, 48.8; 10/21/49, 54.2; 11/25/49, 53.4; 1/12/50, 52.1; 3/28/50, 52.1; 11/2/50, 55.6; 3/29/51, 50.7; 11/16/51, 55.0; 3/31/52, 50.4; 11/12/52, 53.1.

3N/7E-16G1--Reference point-hole in pump base, elevation 64.7 feet. 0.03 mile east of Alpine Road, 0.70 mile north of Harney Lane. 10/28/48, 45.8; 1/19/49, 43.9; 10/18/49, 49.1; 11/21/49, 48.2; 1/9/50, 46.5; 11/2/50, 50.9; 3/30/51, 49.1; 11/14/51, 50.8; 3/31/52, 44.4; 11/12/52, 50.8,

3N/7E-17J2--Reference point-slot in concrete base, elevation 58 feet. 0.04 mile east of Jackson Road, 0.49 mile north of Harney Lane. 10/28/48, 41.7; 1/19/49, 41.1; 3/29/49, 45.0; 10/18/49, 43.0; 11/21/49, 42.1; 1/9/50, 42.8; 10/31/50, 44.2; 3/30/51, 44.4; 11/14/51, 45.8; 4/1/52, 40.3; 11/12/52, 40.3.

3N/7E-20J1--Reference point-hole in pump base, elevation 54 feet. 0.18 mile south of Hogan Road, 0.25 mile east of Angier Road. 10/28/48, 47.1; 1/19/49, 45.6; 3/29/49, 46.4; 10/18/49, 50.6; 11/21/49, 48.3; 1/9/50, 47.0; 3/23/50, 49.7; 10/31/50, 49.7; 3/30/51, 44.4; 11/14/51, 47.2; 4/1/52, 42.7; 11/12/52, 48.6; 3/25/53, 46.4.

3N/7E-20P2--Reference point-hole in pump base, elevation 50 feet. 0.41 mile east of Central California Traction Company Railroad, 0.08 mile south of Haight Road. 10/28/48, 44.8; 1/19/49, 42.3; 3/29/49, 41.5; 10/18/49, 46.8; 11/21/49, 46.0; 1/9/50, 44.6; 3/23/50, 44.0; 10/31/50, 48.5; 3/30/51, 39.7; 11/14/51, 44.4; 4/1/52, 39.5; 11/12/52, 43.9.

3N/7E-21J2--Reference point-hole in pump base, elevation 63 feet. 0.49 mile east of Sacramento Road, 0.04 mile south of Hogan Road. 10/28/48, 52.5; 1/19/49, 49.3; 3/29/49, 48.1; 10/18/49, 56.3; 11/21/49, 54.4; 1/9/50, 52.4; 3/23/50, 52.9; 10/31/50, 58.8; 3/30/51, 48.9; 11/14/51, 60.1; 4/1/52, 48.2; 11/12/52, 60.3.

3N/7E-22Q1--Reference point-top of concrete base, elevation 63 feet. 1.20 miles east of Alpine Road, 0.80 mile south of Harney Road. 10/28/48, 52.3; 1/25/49, 50.8; 3/30/49, 47.5; 10/18/49, 56.6; 11/18/49, 54.6; 1/12/50, 52.2; 3/23/50, 50.8; 11/2/50, 56.3; 3/27/51, 53.3; 11/14/51, 56.6; 4/1/52, 49.1; 11/5/52, 57.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-23J1--Reference point-top of concrete base, elevation 73.2 feet. 0.6 mile south of Harney Lane, 0.64 mile east of State Highway 88. 11/1/48, 54.9; 1/19/49, 52.3; 4/4/49, 50.5; 5/3/49, 57.4 (oper.); 6/2/49, 57.7 (oper.); 7/1/49, 67.0 (oper.); 8/1/49, 69.2 (oper.); 9/2/49, 64.7 (oper.); 10/3/49, 64.6 (oper.); 10/19/49, 59.6; 11/22/49, 56.3; 1/11/50, 54.4; 3/24/50, 51.9; 5/1/50, 57.1; 6/1/50, 64.6 (oper.); 6/29/50, 65.6; (oper.); 8/1/50, 64.7 (oper.); 9/6/50, 72.0 (oper.); 10/2/50, 63.5; 10/30/50, 58.9; 3/28/51, 53.9; 11/16/51, 57.9; 3/31/52, 49.4; 11/10/52, 59.9.

3N/7E-24E1--Reference point-slot in pump base, elevation 74.1 feet. 0.28 mile south of Harney Road, 0.03 mile east of Hibbard Road. 10/14/48, 53.4; 1/21/49, 49.6; 3/28/49, 48.4; 10/19/49, 58.3; 11/22/49, 54.2; 1/11/50, 52.5; 3/24/50, 51.0; 10/30/50, 57.2; 3/28/51, 50.4; 11/13/51, 59.5; 3/31/52, 49.9; 11/10/52, 60.1; 3/25/53, 52.2.

3N/7E-24Q1--Reference point-hole in base, elevation 74.9 feet. 0.33 mile west of Jack Tone Road, 0.03 mile south of Central Road. 10/15/48, 56.6; 1/21/49, 50.8; 3/28/49, 48.7; 10/19/49, 60.3; 11/22/49, 57.5; 1/11/50, 54.3; 3/24/50, 52.6; 10/30/50, 61.1; 3/28/51, 55.4; 11/13/51, 63.5; 3/31/52, 53.1; 11/10/52, 62.0.

3N/7E-25J1--Reference point-hole in pump base, elevation 72.7 feet. 0.62 mile west of Jack Tone Road, north of Tokay Road. 10/18/48, 51.1; 1/21/49, 47.9; 3/28/49, 46.5; 10/19/49, 54.8; 11/21/49, 51.9; 1/11/50, 50.2; 3/24/50, 49.0; 10/30/50, 53.9; 3/28/51, 49.1; 11/16/51, 53.5; 3/31/52, 47.8; 11/10/52, 54.1; 3/25/53, 52.4.

3N/7E-26 C1--Reference point-top of casing, elevation 64 feet. 0.10 mile east of State Highway 88, 0.50 mile north of Live Oak Road. 10/28/48, 53.9; 1/19/49, 49.5; 3/29/49, 48.3; 10/19/49, 56.0; 11/22/49, 53.7; 1/11/50, 52.3; 3/28/50, 51.9; 10/31/50, 55.5; 3/29/51, 53.8; 11/16/51, 54.7; 3/31/52, 49.1; 11/10/52, 55.1; 3/25/53, 49.4.

3N/7E-25G1--Reference point-slot in concrete base, elevation 75.7 feet. On side of Live Oak Road, 0.28 miles west of Jack Tone Road. 12/17/47, 49.1; 3/3/48, 53.8; 11/29/48, 52.9; 3/8/49, 50.3; 4/1/49, 49.6; 11/11/49, 55.9; 4/5/50, 52.5; 11/7/50, 56.5; 4/3/51, 52.7; 11/21/51, 56.2; 4/3/52, 53.5; 11/7/52, 57.6; 3/26/53, 56.2.

3N/7E-26H1--Reference point-hole in pump base, elevation 66.2 feet. On north side of Live Oak Road, 0.58 mile east of Highway 88. 12/17/47, 47.0; 3/3/48, 48.2; 11/28/48, 50.7; 2/3/49, 48.7; 3/8/49, 48.2; 4/5/49, 48.2; 11/11/49, 53.7; 4/9/50, 51.5; 11/6/50, 54.3; 4/3/51, 49.1; 11/23/51, well capped.

3N/7E-30K1--Reference point-top of casing at south side of pump, elevation 45 feet. 0.66 mile east of U. S. Highway 99, 0.1 mile south of Live Oak Road. 10/28/48, 43.3; 1/19/49, 41.4; 3/29/49, 40.1; 10/19/49, 45.2; 11/21/49, 44.2; 1/9/50, 42.2; 3/22/50, 50.8; 10/31/50, 44.1; 3/30/51, 34.1; 11/14/51, 44.5; 4/1/52, 32.5; 11/12/52, 38.9; 3/25/53, 34.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-31G2--Reference point-top of casing, elevation 42 feet. 0.73 mile north of Eight Mile Road, 0.61 mile east of U. S. Highway 99. 10/28/48, 38.5; 1/19/49, 35.5; 3/29/49, 33.1; 10/19/49, 40.3; 11/21/49, 39.1; 1/9/50, 37.2; 3/22/50, 34.4; 10/31/50, 40.6; 3/30/51, 29.7; 11/16/51, 35.6; 4/1/52, 26.1; 11/12/52, 32.0.

3N/7E-32F1--Reference point-hole in north side of pump base, elevation 46 feet. 0.49 mile east of Central California Traction Company Railroad, 0.66 mile north of Eight Mile Road. 10/28/48, 43.9; 1/25/49, 41.5; 3/29/49, 39.8; 10/18/49, 47.1; 11/18/49, 46.1; 1/12/50, 44.2; 3/23/50, 39.6; 10/31/50, 46.9; 3/30/51, 33.2; 11/16/51, 42.5; 4/1/52, 32.6; 11/5/52, oper.; 3/25/53, 33.9.

3N/7E-33E1--Reference point-plug hole on side of pump base, elevation 47 feet. 0.68 mile west of Sacramento Road, 0.57 mile north of Eight Mile Road. 5/3/49, 72.9 (oper.); 6/1/49, 73.3 (oper.); 7/1/49, 49.1; 8/1/49, 75.1 (oper.); 9/1/49, 57.2; 10/3/49, 51.2.

3N/7E-33J1--Reference point-top of concrete elevation 60.4 feet. On east side of Alpine Road, 0.5 mile north of Eight Mile Road. 12/10/47, 45.1; 3/3/48, 45.2; 11/29/48, 46.8; 2/3/49, 44.8; 3/8/49, 43.9; 4/1/49, 42.8; 11/11/49, 51.2; 3/30/50, 44.7; 11/7/50, 50.1; 4/5/51, 42.5; 11/23/51, 50.7; 4/7/52, 40.4; 11/10/52, well plugged, C.N.M.

3N/7E-33N1--Reference point-top of casing, elevation 50.9 feet. On north side of Eight Mile Road, 0.66 mile west of Alpine Road. 12/10/47, 44.4; 11/29/48, 47.2; 3/8/49, 43.5; 4/5/49, 48.1; 11/11/49, 50.5.

3N/7E-34A2--Reference point-top of casing, elevation 60.1 feet. On west side of Highway 88, 0.94 mile north of Eight Mile Road. 12/1/47, 44.7; 3/3/48, 44.4; 11/29/48, 45.6; 2/3/49, 44.3; 2/10/49, 44.1; 3/8/49, 43.8; 4/1/49, 43.2; 5/6/49, 46.4; 11/11/49, 49.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/7E-34G1--Reference point-hole in side of pump, elevation 60.9 feet. 0.5 mile north of Eight Mile Road, 0.28 mile west of Highway 88. 12/2/47, 44.5; 3/3/48, 47.7; 11/29/48, 47.3; 3/8/49, 45.2; 4/5/49, 44.2; 11/11/49, 51.5; 3/31/50, 47.0; 11/7/50, 52.6; 4/3/51, 44.8; 11/26/51, 53.3; 11/10/52, 44.8.

3N/7E-35C1--Reference point-top of casing, elevation 62.4 feet. 1.0 mile north of Eight Mile Road, 0.27 mile east of Highway 88. 12/1/47, 44.2; 3/3/48, 46.2; 11/29/48, 47.5; 3/8/49, 45.8; 4/5/49, 45.2; 11/11/49, 51.3.

3N/7E-35C2--Reference point-top of casing, elevation 62.2 feet. 0.84 mile north of Eight Mile Road, 0.5 mile east of Highway 88. 12/1/47, 40.9; 3/3/48, 45.3; 11/29/48, 44.0; 3/8/49, 41.8; 4/5/49, 41.0; 11/11/49, 47.2; 3/31/50, 44.7; 11/6/50, 47.3; 4/5/51, 42.7; 11/26/51, 46.6; 4/3/52, 44.8; 11/10/52, 45.4; 3/26/53, 43.0.

3N/7E-35L1--Reference point-top of casing, elevation 64.5 feet. 0.57 mile east of Highway 88, 0.38 mile north of Eight Mile Road. 12/1/47, 47.6; 3/3/48, 50.5; 11/29/48, 49.8; 3/8/49, 47.0; 4/5/49, 46.3; 11/11/49, 52.3; 3/31/50, 48.0; 11/6/50, 51.7; 4/5/51, 47.2; 11/26/51, 52.1; 4/3/52, 51.0; 11/10/52, 47.2; 3/26/53, 44.3.

3N/7E-36D1--Reference point-slot between base boards, elevation 68.7 feet. 0.89 mile west of Jack Tone Road, 0.86 mile north of Eight Mile Road. 12/1/47, 45.0; 3/3/48, 49.3; 4/1/48, 44.7; 11/30/48, 47.7; 11/11/49, 50.7; 4/5/50, 47.4; 11/8/50, 50.8; 4/3/51, 48.1; 11/21/51, 58.7; 4/3/52, 45.4; 11/7/52, 49.7; 3/26/53, 45.7.

3N/7E-36K1--Reference point-slot in concrete base, elevation 78.2 feet. On north side of Calaveras River, 0.32 mile west of Jack Tone Road. 12/1/47, 52.6; 3/17/48, 54.9; 4/14/48, 52.7; 5/4/48, 53.0; 9/21/48, 63.8; 11/30/48, 55.9; 1/10/49, 54.6; 4/1/49, 52.6; 11/11/49, 58.6; 4/5/50, 55.4; 11/7/50, 58.3; 4/3/51, 54.7; 4/3/52, 52.4; 11/7/52, 56.8; 3/26/53, 50.1.

3N/7E-36N1--Reference point-hole 0.2 foot above top of casing, elevation 70.0 feet. On north side of Eight Mile Road, 0.79 mile west of Jack Tone Road. 11/26/47, 57.9; 3/3/48, 53.5; 4/8/48, 48.2; 5/4/48, 47.5; 9/21/48, 60.1; 11/30/48, 50.8; 2/28/48, 49.8; 3/9/49, 47.6; 4/1/49, 46.2; 11/11/49, 53.5; 4/5/50, 49.1; 11/8/50, 52.6; 4/3/51, 47.6; 11/21/51, 52.9; 4/3/52, 46.3; 11/7/52, 50.2.

N/8E-3R1--Reference point-hole in base at intake pipe, elevation 148 feet. 0.85 mile south of Brandt Road, 0.1 mile west of Clements Road. 10/25/48, 80.3; 1/21/49, 77.2; 3/28/49, 74.8; 10/19/49, 80.2; 11/21/49, 79.2; 1/11/50, 77.7; 3/27/50, 79.7; 1/28/51, 76.2.

N/8E-4Q1--Reference point-top of brick curb, elevation 121.2 feet. 150 feet north of Sargent Road, 600 feet east of Linn Road. 11/25/49, 82.3; 3/27/50, 81.6; 10/30/50, 85.2; 3/28/51, 85.1; 11/19/51, 83.9; 3/31/52, 84.3; 11/10/52, 86.9; 1/25/53, 85.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/8E-5B3--Reference point-top of casing, elevation 109 feet. 0.65 mile east of Tully Road, south side of Brandt Road. 10/21/48, 71.3; 1/18/49, 67.8; 3/28/49, 67.0; 10/19/49, 73.3; 11/21/49, 71.3; 1/11/50, 70.0; 3/24/50, 69.0; 10/31/50, 74.1; 3/28/51, 70.0; 3/31/52, 70.4; 11/10/52, oper.

3N/8E-6H2--Reference point-pipe in base, elevation 100 feet. 0.5 mile south of Brandt Road, 0.1 mile west of Tully Road. 10/21/48, 63.9; 1/18/49, 62.3; 3/28/49, 61.7; 10/19/49, 67.8; 11/22/49, 65.2; 1/11/50, 64.0; 3/24/50, 63.2; 10/30/50, 64.4; 3/29/51, 65.1; 11/13/51, 75.3; 3/31/52, 64.3; 11/10/52, 69.4; 3/25/53, 69.6.

3N/8E-7D1--Reference point-hole in pump base, elevation 87 feet. 1.1 mile south of Brandt Road, east side of Jack Tone Road. 10/22/48, 58.9; 1/18/49, 55.7; 3/28/49, 54.9; 10/20/49, 63.4; 11/21/49, 59.5; 1/11/50, 58.0; 3/27/50, 57.8; 10/31/50, 62.2; 3/29/51, 58.9; 11/14/51, 61.9; 3/31/52, 57.2; 11/10/52, 63.9; 3/25/53, 59.2.

3N/8E-7Q1--Reference point-top of casing, elevation 93 feet. 0.4 mile north of Tully Road, north side of Kettleman Road. 10/22/48, 59.5; 1/18/49, 57.8.

3N/8E-7Q2--Reference point-top of casing, elevation 93 feet. 0.08 mile north of Kettleman Road, 0.4 mile west of Tully Road. 3/28/49, 57.1; 10/20/49, 64.5; 11/21/49, 61.7; 1/11/50, 60.6; 3/24/50, 59.9; 10/31/50, 64.9; 3/29/51, 64.8; 11/14/51, 66.0; 3/31/52, 61.7; 11/10/52, 68.1; 3/25/53, 62.7.

3N/8E-8E1--Reference point-slot in base, elevation 97 feet. 0.15 mile east of Tully Road, 0.75 mile north of Kettleman Road. 11/8/48, 64.3; 1/18/49, 63.0; 3/28/49, 62.4; 10/19/49, 72.0; 11/21/49, 66.3; 1/11/50, 65.3; 3/27/50, 66.9; 10/30/50, 68.9; 3/28/51, 68.3; 11/13/51, 70.4; 3/31/52, 65.7; 11/10/52, 71.7; 3/25/53, 67.3.

3N/8E-9Q1--Reference point-copper bench mark on well cover, elevation 127 feet. 300 feet north of Kettleman Road, 300 feet east of Linn Road. 11/25/49, 91.8; 3/27/50, 91.4; 10/30/50, 103.3; 3/28/51, 94.6; 11/19/51, 96.2; 3/31/52, 93.7; 11/10/52, 98.8; 3/25/53, 94.4.

3N/8E-11N1--Reference point-crack in 2" x 8" pump support, elevation 166 feet. 120 feet northeast of intersection of Kettleman and Clements Roads. 12/14/48, 101.6; 12/7/49, 104.2; 10/31/50, 91.4; 11/28/51, 91.3.

3N/8E-15A1--Reference point-top of concrete pit, elevation 152.7 feet. 0.2 mile west of Clements Road, 0.1 mile south of Kettleman Road. 11/13/29, 94.5; 10/23/30, 95.5; 12/8/31, 96.0; 11/7/32, 97.9; 12/27/33, 99.3; 11/19/34, 99.6; 11/9/36, 101.5; 11/8/37, 101.0; 1/16/39, 100.4; 1/22/41, 101.3; 11/19/47, 91.8; 10/21/48, 92.0; 1/21/49, 91.3; 3/28/49, 91.1; 10/19/49, 93.9; 11/21/49, 92.7; 1/11/50, 91.8; 3/27/50, 91.6; 10/30/50, 91.4; 3/28/51, 91.1; 3/31/52, 92.5; 11/10/52, 91.6; 3/25/53, 92.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/8E-19C1--Reference point-slot in concrete base, elevation 86.6 feet. 0.27 mile east of Jack Tone Road, 0.03 mile south of Harney Lane. 10/15/48, 64.6; 1/21/49, 61.3; 3/28/49, 55.8; 11/22/49, 65.1; 1/11/50, 62.5; 3/24/50, 61.8.

3N/8E-19B1--Reference point-pipe in base, elevation 100 feet. 0.64 mile east of Jack Tone Road, south side of Harney Lane. 10/14/48, 71.9; 1/21/49, 70.1; 3/28/49, 69.2; 10/19/48, 73.6; 11/22/49, 73.5; 1/11/50, 73.1; 3/24/50, 72.0; 10/30/50, 76.2; 3/28/51, 73.9; 11/19/51, 78.5; 3/31/52, 75.1; 3/25/53, 75.8.

3N/8E-19M2--Reference point-hole in pump base, elevation 78.1 feet. 0.08 mile east of Jack Tone Road, 0.52 mile south of Harney Lane. 10/15/48, 54.2; 1/21/49, 52.2; 3/28/49, 48.8; 10/19/49, 57.9; 11/22/49, 55.0; 1/11/50, 53.1; 3/24/50, 51.6; 10/30/50, 57.6; 3/28/51, 52.9; 11/13/51, 57.6; 3/31/52, 52.0; 11/10/52, 59.1; 3/25/53, 53.0.

3N/8E-19N1--Reference point-hole in pump base, elevation 78.6 feet. 0.04 mile east of Jack Tone Road, 0.07 mile north of Line Road. 10/15/48, 49.5; 1/21/49, 51.5; 3/28/49, 50.1; 10/19/49, 59.2; 11/22/49, 56.6; 1/11/50, 54.6; 3/24/50, 53.6.

3N/8E-20A1--Reference point-2" x 8" under pump base, elevation 106.7 feet. 0.46 mile east of Tully Road, 0.07 mile south of Harney Road. 10/15/48, 94.3; 1/21/49, 91.7; 3/28/49, 90.6; 10/21/49, 77.8; 11/21/49, 76.5; 1/11/50, 74.9; 3/27/50, 74.2; 10/30/50, 78.2; 3/28/51, 73.1; 11/16/51, 78.9; 3/31/52, 75.6; 11/10/52, 79.8.

3N/8E-22A1--Reference point-hole in pump base, elevation 138.6 feet. 0.2 mile south of Harney Road, 0.15 mile west of Clements Road. 10/15/48, 98.1; 1/21/49, 96.6; 3/28/49, 96.3; 10/21/49, 100.0; 11/21/49, 99.6; 1/11/50, 99.2; 3/27/50, 98.7; 10/30/50, 107.1 (oper.); 3/28/51, 99.3; 3/31/52, 107.1; 11/10/52, C.N.M..

3N/8E-30C1--Reference point-I-beam supporting pump, elevation 81.1 feet. 0.38 mile east of Jack Tone Road, 0.04 mile north of Tokay Road. 10/15/48, 56.7; 1/21/49, 53.1; 3/28/49, 51.8; 10/21/49, 60.3; 11/22/49, 57.3; 1/11/50, 55.7; 3/24/50, 55.2.

3N/8E-28L1--Reference point-top of casing, elevation 108 feet. 0.95 mile east of Tully Road, 0.5 mile north of Frazier Road. 12/9/47, 75.2; 3/3/48, 73.8; 11/29/48, 74.9; 3/8/49, 73.1; 4/1/49, 72.4; 11/11/49, 78.6.

3N/8E-29G1--Reference point-top of casing, elevation 93 feet. Northeast corner of intersection of Live Oak and Tully Roads. 12/2/47, 60.6; 3/3/48, 63.3; 11/29/48, 62.5; 3/8/49, 61.6; 4/1/49, 60.8; 11/11/49, 67.6; 4/5/50, 64.1; 11/7/50, 69.4; 4/3/51, 63.8; 11/21/51, 68.4; 4/3/52, 63.6; 11/7/52, 71.3; 3/26/53, 64.1.

3N/8E-30H1--Reference point-hole in pump base, elevation 85.3 feet. On north side of Live Oak Road, 0.74 mile west of Tully Road. 12/17/47, 55.5; 3/8/48, 60.0; 4/14/48, 56.2; 5/4/48, 55.9; 9/21/48, 65.4; 11/29/48, 59.3; 1/10/49, 57.8; 2/3/49, 57.2; 2/10/49, 57.3; 3/8/49, 57.1; 4/1/49, 56.4; 5/5/49, 62.3; 6/3/49, 63.6; 8/3/49, 71.0; 9/6/49, 69.7; 10/7/49, 65.1; 11/11/49, 62.7; 4/5/50, 59.2; 11/7/50, 64.1; 4/3/51, 59.1; 11/21/51, 64.7; 4/3/52, 58.5; 11/7/52, 63.8.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

N/8E-31C1--Reference point-hole in pump base, elevation 78.0 feet. 0.4 mile north of Calaveras River, 0.47 mile east of Jack Tone Road. 12/1/47, 50.2; 3/8/48, 54.6, 1/30/48, 53.1; 2/3/49, 51.0; 2/10/49, 51.2; 4/1/49, 50.0; 5/5/49, 6.9; 7/5/49, 63.0; 8/3/49, 74.4; 9/6/49, 66.2; 10/7/49, 63.7; 11/11/49, 56.2; 1/5/50, 53.0; 11/7/50, 56.1; 4/3/51, 52.4; 11/26/51, 56.8; 4/3/52, 51.7; 11/7/52, 6.3.

N/8E-31K1--Reference point-hole in side of casing, elevation 79.4 feet. 0.62 mile east of Jack Tone Road, 0.36 mile north of Eight Mile Road. 12/1/47, 47.2; 3/8/48, 7.1; 11/30/48, 54.9; 2/3/49, 52.9; 2/10/49, 53.3; 3/9/49, 52.9; 4/1/49, 51.7; 1/5/49, 59.4.

N/8E-32G1--Reference point-hole in side of casing, elevation 90.6 feet. On north side of Calaveras River, 0.16 mile east of Tully Road. 12/2/47, 60.0; 3/3/48, 65.6; 7/4/48, 60.3; 5/4/48, 59.6; 11/29/48, 64.2; 1/10/49, 61.8; 3/8/49, 60.8; 4/1/49, 9.9; 11/11/49, 66.7; 4/5/50, 63.2; 11/7/50, 67.9; 4/3/51, 62.0; 11/21/51, 69.7; 1/3/52, 61.6; 11/7/52, 66.6.

N/8E-32J1--Reference point-top of casing, elevation 90.5 feet. 0.45 mile east of Tully Road, 0.39 mile north of Eight Mile Road. 11/28/47, 59.6; 11/29/48, 63.0; 1/9/49, 60.7; 4/1/49, 59.9; 11/11/49, 66.8.

N/8E-32P1--Reference point-hole in pump base, elevation 85.6 feet. On west side of Tully Road, 0.05 mile north of Eight Mile Road. 11/26/47, 56.7; 3/3/48, 63.5; 7/4/48, 56.9; 5/4/48, 56.0; 6/1/48, 56.0; 7/1/48, 70.8; 8/3/48, 78.3; 9/2/48, 77.4; 1/21/48, 66.7; 10/4/48, 63.6; 11/3/48, 60.8; 11/29/48, 59.8; 1/10/49, 58.2; 3/8/49, 7.5; 4/1/49, 56.5; 5/3/49, 60.1; 11/11/49, 63.4; 3/26/53, 59.8.

N/8E-32P2--Reference point-top of casing, elevation 85.0 feet. On north side of Eight Mile Road, 0.14 mile west of Tully Road. 12/6/47, 56.1; 3/8/48, 62.4; 11/29/48, 9.5; 3/9/49, 56.7; 4/1/49, 55.9; 11/11/49, 62.9; 4/5/50, 58.5; 11/7/50, 62.5; 1/3/51, 58.1; 11/21/51, 64.2; 4/3/52, 57.4; 11/7/52, 62.2, 3/26/53 well destroyed.

N/8E-33N1--Reference point-top of casing, elevation 91.0 feet. On north side of Eight Mile Road, 0.6 mile east of Tully Road. 12/5/47, 59.3; 3/18/47, 62.3; 1/29/48, 62.6; 3/8/49, 60.2; 4/1/49, 59.3; 11/11/49, 66.3; 4/5/50, 62.0; 11/7/50, 6.0; 4/3/51, 61.6; 11/21/51, 65.8; 4/3/52, 61.3; 11/7/52, 65.7.

N/9E-25L1--Reference point-hole in pump base, elevation 176.6 feet. On west side of Bellota River Road, 0.59 mile north of Calaveras River. 11/22/48, 53.8; 3/31/49, 2.9; 11/14/49, 56.0; 3/30/50, 55.3; 11/7/50, 56.2; 4/4/51, 53.7; 11/23/51, 54.7; 1/7/52, 52.2; 11/5/52, (Oper.).

N/9E-25J1--Reference point-hole in pump base, elevation 169.2 feet. On north side of Bellota River Road, 0.52 mile north of Calaveras River. 11/19/48, 40.2; 3/31/49, 3.7; 11/14/49, 41.8; 3/30/50, 39.9; 11/7/50, 39.9; 4/9/51, 37.2; 11/23/51, 43.6; 1/7/52, 36.9; 11/5/52, 37.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

3N/9E-25R1--Reference point-hole in pump base, elevation 170.0 feet. On east side of Bellota River Road, 0.29 mile north of Calaveras River. 11/22/48, 41.3; 3/31/49, 39.2; 11/14/49, 42.8; 3/30/50, 38.3; 11/7/50, 37.1; 4/4/51, 32.4; 11/23/51, 42.4; 4/7/52, 32.6; 11/5/52, 34.5; 3/27/53, 35.2.

3N/9E-33J1--Reference point-hole in pump base, elevation 141.7 feet. On north side of Calaveras River, 1.7 miles northeast of Linden Road-Calaveras River crossing. 11/19/48, 58.8; 3/31/49, 56.3; 11/14/49, 59.7; 3/30/50, 57.5; 11/7/50, 56.6; 4/5/51, 55.1; 11/23/51, 59.1; 4/8/52, 55.7; 11/6/52, 56.1; 3/27/53, 56.0.

3N/9E-33Q1--Reference point-slot in concrete base, elevation 141.9 feet. On north side of Calaveras River, 1.55 miles northeast of Linden Road-Calaveras River crossing. 11/19/48, 67.5; 3/31/49, 64.2; 11/14/49, 68.3.

3N/9E-35R1--Reference point-hole in pump base, elevation 202.9 feet. 1.1 miles west of intersection of Bellota River Road and Calaveras River. 11/19/48, 88.7; 3/31/49, 88.5; 11/14/49, 90.0; 3/30/50, 88.9; 11/7/50, 89.5; 4/4/51, 87.6; 4/7/52, 87.3; 11/5/52, 87.1.

3N/9E-35H1--Reference point-hole in pump base, elevation 162.9 feet. 0.68 mile north of intersection of Waverly and Bellota River Roads, thence northeast for 0.25 mile. 11/19/48, 47.4; 3/31/49, 45.5; 11/14/49, 48.2; 3/30/50, 46.4; 11/7/50, 46.6; 4/4/51, 42.4; 11/23/51, 46.7; 4/7/52, 45.5; 11/5/52, 45.4; 3/27/53, 43.6.

3N/9E-35K1--Reference point-hole in pump base, elevation 159.2 feet. 0.1 mile west of intersection of Waverly and Bellota Roads, thence north for 0.5 mile, southwest for 0.15 mile. 11/19/48, 47.2; 1/10/49, 46.3; 3/31/49, 45.6; 11/14/49, 47.8.

3N/9E-36C1--Reference point-plug in pump base, elevation 168.7. On north side of Calaveras River, 0.35 mile west of Bellota River Road. 11/19/48, 49.3; 12/29/48, 48.1; 3/31/49, 46.6; 11/15/49, 50.6.

3N/9E-36A1--Reference point-hole in pump base, elevation 174.0 feet. On north side of Calaveras River, 0.34 mile east of Bellota River Road. 11/19/48, 50.5; 3/31/49, 48.1; 11/14/49, 52.0.

3N/9E-36G1--Reference point-hole in base of pump, elevation 181.2 feet. On south side of Bellota River Road, 0.05 mile south of road crossing of Calaveras River. 1/22/48, 61.7; 12/29/48, 61.0; 3/31/49, 59.2; 11/14/49, 63.2; 3/30/50, 60.3; 1/7/50, 60.1; 4/4/51, 57.2; 11/23/51, 59.8; 4/7/52, 57.1; 11/5/52, 58.6; 3/27/53, 57.2.

3N/10E-31H1--Reference point-hole in pump base, elevation 181.0 feet. 0.53 mile south and 0.27 mile west of northeast corner of section. 11/22/48, 49.5; 3/31/49, 48.4; 11/14/49, 50.2; 3/30/50, 49.4; 11/7/50, 49.3; 4/4/51, 48.1; 11/5/52, 48.9.

3N/10E-31M1--Reference point, between base plate and concrete on east side, elevation 191.1 feet. 0.55 mile south and 0.09 mile east of northwest corner of section. 1/22/48, 71.0; 3/31/49, 69.3; 11/14/49, 72.9; 3/30/50, 69.8; 11/2/50, 69.2; 4/4/51, 68.9; 11/23/51, 72.6; 4/7/52, 66.4; 11/5/52, 68.3; 3/27/53, 66.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/6E-3C1--Reference point-top of casing, elevation 22 feet. 0.1 mile east of Lower Sacramento Road, 200 feet south of Eight Mile Road. 12/2/46, 8.5; 3/3/47, 9.4; 8/1/47, 11.2; 11/29/48, 12.5; 3/8/49, 41.5; 4/5, 12.2; 7/21, 11.7; 8/2, 10.8; 9/6, 17.9; 10/6, 11.5; 11/2, 11.4; 11/10/49, 11.4; 3/31/50, 11.4; 11/2/50, 11.4; 4/2/51, 8.1; 11/19/51, 10.5; 4/2/52, 5.8; 11/10/52, 10.9; 3/27/53, 9.1.

2N/6E-8F1--Reference point-pipe with concrete plug in base for pump, elevation 10 feet. .28 mile north of Wagner Road, .03 mile west of Thornton Road. 11/10/49, 9.3; 8/2, 11.9; 9/6, 10.5; 10/6/49, 10.1; 3/31/50, 6.5; 11/2/50, 9.9; 4/2/51, 4.8; 11/19/51, 9.4; 4/2/52, 3.7; 11/7/52, 9.4; 3/27/53, 6.5.

2N/6E-9C1--Reference point-top of casing, elevation 18 feet. .42 mile north of Wagner Road, west side of Lower Sacramento Road. 7/21/49, 9.7; 8/2, 9.7; 9/6, 9.7; 10/6, 8.3; 11/10/49, 8.9; 3/31/50, 7.7; 11/2/50, 9.0; 4/8/51, 4.6; 11/19/51, 8.5; 4/2/52, 4.6; 11/10/52, 10.1; 3/27/53, 6.9.

2N/6E-12H1--Reference point-hole in concrete base, elevation 34.2 feet. Southwest corner of intersection of U. S. Highway 99 and Castle Road. 12/14/47, 25.4; 3/17, 29.1; 4/9, 25.5; 5/5, 24.0; 9/21, 31.8; 11/9, 27.1; 12/28/48, 25.3; 2/10/49, 27.5; 3/8, 27.3; 4/5, 26.1; 5/6, 22.3; 8/2, 48.0 (oper.); 9/6, 47.4 (oper.); 10/6, 27.3; 11/10/49, 26.6; 3/31/50, 24.5; 11/2/50, 26.2; 4/2/51, 22.1; 11/19/51, 23.2; 4/2/52, 16.9; 11/10/52, 20.1; 3/31/53, 17.9.

2N/6E-13M1--Reference point-between pump base and concrete, elevation 27.2 feet. South side of Hammer Road, 0.9 mile west of U. S. Highway 99. 12/14/47, 18.8; 3/5/48, 21.2; 4/9, 21.1; 5/5, 19.5; 9/21, 16.3; 11/9/48, 18.2; 1/10/49, 20.3; 3/8, 21.0; 4/5, 19.6; 11/10/49, 17.9; 3/31/50, 19.4; 11/2/50, 16.6; 4/2/51, 14.9; 11/19/51, 15.9; 4/2/52, 10.0; 11/10/52, 13.5; 3/30/53, 13.7.

2N/6E-13I1--Reference point-2 by 10 over top of pit, elevation 30.2 feet. On south side of Hammer Road, 0.52 mile west of U. S. Highway 99. 3/30/48, 24.1; 5/3, 21.3; 6/3, 20.0; 7/2, 20.9; 8/3, 34.1 (oper.); 9/2, 25.4; 10/1, 21.2; 11/3, 21.9; 11/9/48, 21.9; 3/8/49, 24.1; 4/5, 22.8; 11/10/49, 21.6.

2N/6E-13K2--Reference point-hole in pump base, elevation 29.0 feet. 0.06 mile south of Hammer Road, 0.52 mile west of U. S. Highway 99. 3/30/48, 23.0; 5/3, 20.1; 6/3, 19.1; 7/2, 19.8; 8/3, 23.8; 9/2, 25.0; 10/1, 20.7; 11/3, 21.1; 11/9/48, 21.2; 3/8/49, 23.2; 4/5, 22.0; 11/10/49, 20.5.

2N/6E-13R1--Reference point-groove in concrete base, elevation 30.8 feet. 0.88 mile north of Calaveras River, 0.27 mile south of Hammer Road on west side of U. S. Highway 99. 12/14/47, 23.7; 3/17/48, 27.4; 11/9/48, 24.4; 3/8/49, 26.3; 4/5, 24.9; 11/10/49, 24.6; 3/31/50, 24.2; 11/2/50, 23.8; 4/2/51, 21.4; 11/14/51, 23.1; 4/2/52, 15.9; 11/10/52, 18.9; 3/27/53, 17.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/6E-15J1--Reference point-top of casing, elevation 21 feet. .03 mile south of Hammer Road, .05 mile west of West Lane. 7/21/49, 9.8; 8/2, 8.4; 9/6, 8.3; 10/6, 8.1; 11/10/49, 8.0; 3/31/50, 11.5; 11/2/50, 8.5; 4/2/51, 6.5; 11/19/51, 8.3; 4/2/52, 3.6; 11/10/52, 7.1; 3/27/53, 7.4.

2N/6E-16L1--Reference point-top of casing, elevation 12 feet. 0.02 mile west of Thornton Road, 0.13 mile northwest of junction with Lower Sacramento Road. 7/21/49, 11.0; 8/2, 12.0; 9/6, 12.3; 10/6, 10.4; 11/10/49, 10.0; 3/31/50, 8.0; 11/2/50, 10.8; 4/2/51, 5.6; 11/19/51, 9.7; 4/2/52, 4.4; 11/7/52, 9.7; 3/27/53, 7.2.

2N/6E-24J2--Reference point-top of wooden pit cover, elevation 30.7 feet. 0.06 mile west of U. S. Highway 99, 0.31 mile northeast of McAllen Road on north side of Calaveras River. 12/17/47, 28.1; 3/17/48, 30.0; 11/9/48, 28.8; 3/8/49, 27.5; 4/5, 24.5; 11/10/49, 30.6; 3/31/50, 25.7; 11/2/50, 21.1; 4/2/51, 21.6; 11/10/51, 28.2; 4/2/52, 14.9; 11/10/52, 23.3.

2N/6E-26H1--Reference point-top of casing, elevation 23.0 feet. 0.04 mile north of McAllen Road, 0.08 mile east of Southern Pacific Railroad tracks. 12/17/47, 28.8; 3/11/48, 22.8; 4/9, 18.5; 5/6, 18.7; 11/9/48, 25.6; 1/6/49, 24.5; 3/8, 20.7; 4/5, 18.7; 7/1, 24.5; 8/2, 25.0; 9/6, 27.8; 10/6, 26.6; 11/10/49, 27.0; 3/31/50, 22.0; 11/2/50, 27.4; 4/2/51, 15.9; 11/19/51, 25.2; 4/2/52, 11.1; 11/10/52, 19.2; 3/30/53, 19.3.

2N/6E-26L2--Reference point-top of wooden pit wall, elevation 21.7 feet. 0.08 mile west of West Lane, 0.05 mile south of Calaveras River. 12/16/47, 25.1; 3/11/48, 22.8; 11/30/48, 24.7; 3/10/49, 21.2; 4/5, 19.8; 11/10/49, 27.0; 3/31/50, 22.7; 11/2/50, 27.8; 4/2/51, 18.1; 11/19/51, 25.8; 4/2/52, 14.0; 11/7/52, 21.8; 3/30/53, 20.6.

2N/6E-26K1--Reference point-hole in top of casing, elevation 24.2 feet. 0.07 mile east of West Lane, 0.14 mile south of Calaveras River. 3/29/48, 23.6; 5/3, 22.3; 6/3, 22.5; 7/2, 25.7; 8/3, 27.2; 9/3, 42.5 (oper.); 10/1, 29.0; 11/1, 27.1; 11/30/48, 27.2; 3/10/49, 23.4; 4/5, 22.1; 11/10/49, 29.1

2N/6E-27N1--Reference point-top casing, elevation 11.2 feet. Northeast corner of intersection of Brookside Road and Lower Sacramento Road. 12/16/47, 18.7; 3/11/48, 18.0; 11/30/48, 16.7; 4/5/49, 14.0; 11/10/49, 20.2; 3/31/50, 17.5; 11/6/50, 21.4; 4/2/51, 14.0; 11/19/51, 18.9; 4/2/52, 9.5; 3/30/53, 15.8.

2N/6E-33M1--Reference point-top of casing, elevation 5.65 feet. West of Mission Road, 100 feet south of Western Pacific Railroad tracks. 12/16/47, 12.0; 3/11/48, 11.3; 11/30/48, 12.1; 3/10/49, 9.6; 4/6/49, 9.3; 11/10/49, 13.1.

2N/6E-34K1*--Reference point-center face of pneumatic gauge, elevation 8.75 feet. North side of Ellis Street, 50 feet east of Bonnie Lane. 11/1/46, 29; 3/1/47, 21; 11/1/47, 35; 1/48, 24; 2/48, 24; 11/1/48, 22; 4/28/49, 26; 5/50, 32; 10/31/50, 33; 2/28/51, 22; 10/29/51, 28; 2/25/52, 28; 11/1/52, 33; 3/4/53, 24.

* Well owned and measured by California Water Service Company.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/6E-36A1* -Reference point-center of face of air gage, elevation 25.56 feet. Northeast side of Robindale Avenue, 50 feet northwest of Cherokee Avenue. 11/1/47, 38; 1/48, 39; 2/48, 36; 11/1/48, 33; 4/18/49, 34; 10/31/49, 36; 4/50, 54; 5/50, 32; 10/31/50, 39; 3/8/53, 31.

2N/6E-36R3* -Reference point-center face of pneumatic gauge, elevation 23.86 feet. South side of Willow Street, 50 feet west of Sargent Street. 11/1/46, 30; 3/1/47, 31; 11/1/47, 37; 1/48, 37; 2/48, 36; 11/1/48, 40; 4/28/49, 36; 10/31/49, 43; 4/50, 55 (oper.); 5/50, 42; 10/31/50, 45; 2/28/51, 38; 10/30/51, 44; 2/25/52, 37; 11/1/52, 42; 3/5/53, 38.

2N/7E-1A1--Reference point-top of casing, elevation 71.6 feet. 0.07 mile west of Jack Tone Road, 0.07 mile south of Eight Mile Road. 12/5/47, 46.7; 3/8/48, 50.1; 11/30/48, 49.8; 3/9/49, 47.7; 4/1/49, 46.7; 11/11/49, 52.9; 4/5/50, 49.1; 11/8, 53.0; 4/3/51, 47.3; 11/21/51, 52.9; 4/13/52, 46.4; 11/7/52, 50.5.

2N/7E-1M1--Reference point-hole in base plate, elevation 68 feet. 0.11 mile east of Bleacher Road, 0.48 mile north of Waterloo East Road. 12/2/47, 46.9; 3/10/48, 51.1; 4/8, 47.0; 5/5, 46.2; 11/12/48, 50.5; 3/10/49, 47.5; 4/5, 46.5; 11/10/49, 53.0.

2N/7E-1R2--Reference point-top of casing, elevation 73.9 feet. 0.19 mile west of Jack Tone Road, 0.07 mile north of Waterloo East Road. 9/22/47, 55.8; 12/5/47, 50.5; 3/8/48, 54.0; 11/16/48, 55.0; 3/29/49, 51.4; 11/15/49, 57.1; 4/5/50, 53.5; 11/6/50, 57.6; 4/4/51, 53.4; 11/20/51, 57.6; 4/4/52, 52.6; 11/6/52, 55.6; 3/31/53, 51.4.

2N/7E-2D1--Reference point-plug in pump base, elevation 61.6 feet. 0.09 mile south of Eight Mile Road, 0.13 mile east of State Highway 88. 4/2/48, 53.9; 5/3, 45.9; 6/2, 46.1; 7/1, 63.5 (oper.); 8/3, 65.2 (oper.); 9/2, 62.2 (oper.); 10/1, 54.7; 11/3, 51.5; 11/29/48, 50.0; 3/8/49, 45.7; 4/5, 44.1; 5/3, 60.2 (oper.); 6/1, 56.9; 7/1, 62.3; 8/1, 55.5; 9/2, 63.0; 10/3, 53.2; 11/14/49, 59.2; 3/31/50, 48.5; 11/7/50, 47.3; 4/5/51, 48.1; 11/23/51, 51.8; 4/7/52, 46.1; 11/10/52, casing plugged.

2N/7E-2C2--Reference point-slot in concrete, elevation 62.1 feet. 0.45 mile east of Lockford Road, 0.23 mile north of Calaveras River. 11/29/47, 10.0; 3/17, 7.2; 4/8, 13.0; 5/4, 14.2; 11/12/48, 7.5; 1/10/49, 11.5; 3/9, 14.2; 11/14/49, 9.4.

2N/7E-2H2--Reference point-top of concrete pipe casing, elevation 67 feet. Approximately 1.05 miles east of Waterloo on Waterloo East Road, thence north to Calaveras River. 12/2/47, 48.9; 11/12/48, 51.7.

* Well owned and measured by California Water Service Company.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-3B2--Reference point-slot in concrete base, elevation 58.8 feet. 0.15 mile south of Eight Mile Road, 0.23 mile west of State Highway 88. 12/8/47, 53.8; 3/17/48, 50.4; 4/8/48, 46.6; 5/5/48, 44.7; 9/21/48, 57.2; 11/29/48, 48.9; 1/10/49, 47.5; 2/3/49, 46.2; 2/10/49, 45.2; 3/8/49, 44.1; 4/5/49, 42.3; 5/6/49, 41.9; 11/11/49, 50.2.

2N/7E-3E1--Reference point-hole in pump base, elevation 54.1 feet. On west side of Fauerso Road, 0.56 mile north of intersection of Fauerso Road and Calaveras River. 12/10/47, 43.7; 3/3/48, 49.2; 11/12/48, 47.8; 2/3/49, 43.6; 3/9, 41.5; 4/5, 39.7; 11/14/49, 48.2; 3/31/50, 41.1; 11/3/50, 44.9; 4/2/51, 37.3; 11/20/51, 44.7; 4/3/52, 33.2; 11/6/52, 38.1.

2N/7E-3N3--Reference point-bottom of pump base, elevation 56.3 feet. In southwest corner of intersection of Fauerso Road and Calaveras River. 12/17/47, 50.0; 3/11/48, 60.0; 11/12/48, 52.5; 2/3/49, 47.6; 3/9, 43.6; 4/5, 39.3; 11/10/49, 52.6; 3/31/50, 43.2; 11/3/50, 48.0; 4/2/51, 37.7; 11/20/51, 49.3; 4/3/52, 30.2; 11/6/52, 41.2; 3/31/53, 43.8.

2N/7E-3R2--Reference point-slot in concrete base, elevation 58.6 feet. 0.7 mile north of Waterloo on Lockford Road, thence 0.14 mile west. 12/8/47, 47.8; 3/3/48, 51.2; 11/12/48, 51.2; 2/3/49, 47.4; 2/10, 46.9; 4/5, 43.5; 5/6, 61.1 (oper.); 11/14/49, 50.3.

2N/7E-4B2--Reference point-hole in base (remove plug on west side), elevation 52.7 feet. On west side of Alpine Road, 0.06 mile south of Eight Mile Road. 12/1/47, 43.7; 11/29/48, 46.8; 2/3/49, 44.1; 3/8, 42.9; 4/1, 41.6; 5/3, 69.2 (oper.); 11/11/49, 50.7.

2N/7E-4K1--Reference point-slot in concrete base, elevation 49.8 feet. On west side of Alpine Road, 0.8 mile north of intersection of Alpine Road and Calaveras River. 12/10/47, 42.6; 3/3/48, 45.0; 11/10/48, 48.7; 3/9/49, 40.8; 4/5, 38.9; 11/14/49, 48.4.

2N/7E-4N2--Reference point-slot in concrete base, elevation 47.4 feet. 0.55 mile north on Alpine Road from intersection of Alpine Road and Calaveras River, thence 0.52 mile west. 12/10/47, 41.1; 3/3/48, 44.2; 11/10/48, 48.2; 3/9/49, 41.4; 4/5, 40.3; 11/14/49, 48.8.

2N/7E-5E1--Reference point-hole in pump base, elevation 41.5 feet. 0.8 mile west of Hildreth Lane and 0.45 mile south of Eight Mile Road. 12/11/47, 35.4; 3/5/48, 35.3; 11/29/48, 38.7; 3/8/49, 35.0; 4/1, 34.1; 11/10/49, 44.3; 3/31/50, 34.1; 11/7/50, 40.9; 11/23/51, 38.8; 4/7/52, 27.2; 11/10/52, 34.1; 3/26/53, 27.4.

REPORT TO THE BOARD OF DIRECTORS
OF THE UNIVERSITY OF CALIFORNIA
ON THE PROGRESS OF THE
RESEARCH IN THE DEPARTMENT OF CHEMISTRY
DURING THE YEAR 1955

The research program in the Department of Chemistry during the year 1955 was directed towards the study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

1. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

2. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

3. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

4. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

5. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

6. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

7. The study of the properties of the various types of polymers and the effect of the various factors on their properties. The work was carried out in the following areas:

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-5H1--Reference point-plug in pump base, elevation 47 feet. 0.26 mile south of Eight Mile Road, 0.08 mile west of Hildreth Lane. 3/30/48, 40.9; 5/3, 39.7; 6/2, 41.0; 7/1, 49.8; 8/3, 63.7 (oper.); 9/2, 68.1 (oper.); 10/1, 66.1 (oper.); 11/1, 47.9; 11/29, 46.1; 12/1/48, 46.0; 3/8/49, 41.5; 4/5, 39.7; 5/3, 46.4 (oper.); 6/1, 59.7; 7/1, 63.5; 8/1, 65.0; 9/1, 67.3; 10/3, 52.3; 11/11/49, 49.6; 3/10/50, 40.8; 11/7/50, 49.9; 4/5/51, 38.4; 11/23/51, 49.3; 4/7/52, 34.2; 11/10/52, 42.0.

2N/7E-5R1--Reference point-slot in concrete base, elevation 46.6 feet. On east side of Hildreth Lane, 0.44 mile northeast of intersection of Hildreth Lane and Ashley Road. 12/10/47, 43.0; 3/3/48, 49.9; 11/10/48, 48.5; 3/10/49, 41.7; 4/4, 40.1; 11/14/49, 50.1; 3/30/50, 41.6; 11/2/50, 48.5; 4/2/51, 40.6; 11/19/51, 45.8; 4/2/52, 33.4; 11/6/52, 40.9; 3/31/53, 35.3.

2N/7E-7C1--Reference point-top of concrete around pit, elevation 35.6 feet. South side of Ashley Road, 0.22 mile east of U. S. Highway 99. 12/11/47, 27.0; 3/5/48, 28.6; 11/9/48, 29.7; 3/10/49, 27.8; 4/4, 26.3; 11/18/49, 29.8.

2N/7E-7G1--Reference point-top of wooden casing, elevation 38.6 feet. South side of Morada Road, 0.65 mile east of U. S. Highway 99. 12/11/47, 32.4; 3/5/48, 33.8; 11/9/48, 37.5; 3/10/49, 33.6; 4/4, 32.0; 11/14/49, 37.0.

2N/7E-8D1--Reference point-top of pipe in concrete base, elevation 42.8 feet. 1.01 miles east of U. S. Highway 99, on south side of Ashley Road, 0.5 mile west of Hildreth Lane. 12/11/47, 37.6; 3/5/48, 38.6; 11/9/48, 42.7; 3/10/49, 37.3; 4/4, 36.4; 11/14/49, 43.1; 3/30/50, 36.7; 11/2/50, 43.3; 4/2/51, 34.2; 11/19/51, 40.0; 4/2/52, 29.8; 11/6/52, 36.0.

2N/7E-8F1--Reference point-slot in concrete base, elevation 43.0 feet. On west side of Hildreth Lane, 0.15 mile southwest of the intersection of Hildreth Lane and Ashley Road. 12/11/47, 39.8; 3/3/48, 41.0; 11/9/48, 45.4; 3/10/49, 38.7; 4/4/49, 37.8; 11/14/49, 45.8.

2N/7E-8K3--Reference point-hole in side of pump base, elevation 45.0 feet. .10 mile northeast of intersection of Hildreth Lane and Canepa, thence southeast 0.35 mile. 12/2/48, 48.3; 3/10/49, 41.8; 4/5, 40.4; 11/14/49, 49.2; 3/30/50, 41.7; 11/2/50, 49.8; 4/2/51, 37.7; 11/20/51, 45.8; 4/2/52, 32.4; 11/6/52, 41.2; 3/31/53, 35.4.

2N/7E-8J2--Reference point-slot in concrete base, elevation 47.8 feet. On east side of Ashley Road, 0.22 mile north of intersection of Ashley Road and Foppiano Road. 12/11/47, 45.5; 3/3/48, 51.6; 4/6, 44.8; 5/5, 43.1; 9/21, 62.4; 11/9/48, 51.5; 1/6/49, 47.9; 3/10, 43.9; 4/5, 42.2; 11/10/49, 52.0.

2N/7E-9B2--Reference point-slot in concrete base, elevation 54.6 feet. On west side of Alpine Road, 0.19 mile north of intersection of Alpine Road and Calaveras River. 12/10/47, 49.5; 3/3/48, 53.1; 4/6, 48.2; 5/5, 47.1; 9/21, 65.4; 11/10, 56.0; 12/28/48, 52.5; 3/9/49, 47.0; 4/5, 45.5; 11/14/49, 58.1; 3/30/50, 47.1; 11/6/50, 55.0; 4/2/51, 47.5; 11/19/51, 52.5; 4/3/52, 34.4; 11/6/52, 45.8; 3/31/53, 41.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-9M2--Reference point-top of casing, elevation 49.3 feet. On north side of Foppiano Road, 0.32 mile northeast of intersection of Foppiano Road and Ashley Road. 12/10/47, 46.0; 3/3/48, 51.7; 11/9/48, 52.3; 3/10/49, 44.4; 4/5, 42.3; 11/14/49, 52.7.

2N/7E-9J1--Reference point-top of casing, elevation 49.6 feet. 0.34 mile south of Calaveras River, 0.15 mile east of Alpine Road. 12/10/47, 52.9; 3/4/48, 45.7; 11/10/48, 50.1; 4/5/49, 39.4; 11/10/49, 51.5.

2N/7E-9Q1--Reference point-slot in concrete base, elevation 49.3 feet. 0.59 mile south on Alpine Road from intersection of Alpine and Calaveras, thence 0.1 mile north. 12/10/47, 53.3; 3/4/48, P; 3/18, 46.4; 11/10/48, 52.1; 3/9/49, 44.2; 4/5, 41.4; 11/10/49, 52.8; 3/30/50, 44.5; 11/6/50, 51.8; 4/2/51, 40.4; 11/19/51, 49.6; 4/3/52, 31.9; 11/7/52, 43.5.

2N/7E-10D1--Reference point-bottom of I-beam, elevation 54.7 feet. 0.84 mile north of Fauerso Road from Waterloo Road, thence 0.2 mile west. 12/10/47, 54.0; 3/10/48, 57.7; 4/8, 47.3; 5/6, 44.9; 9/21, 63.1; 11/12/48, 53.5; 1/6/49, 49.6; 2/3, 48.3; 3/9, 45.4; 4/5, 40.3; 11/10/49, 53.6.

2N/7E-10H2--Reference point-slot in concrete base, elevation 56.7 feet. On west side of Lockford Road, 0.3 mile north of Waterloo. 12/10/47, 43.0; 3/3/48, 47.7; 4/6/48, 42.2; 5/5, 43.8; 9/21, 52.2; 11/12/48, 48.0; 2/3/49, 44.8; 2/10, 44.3; 3/9, 43.3; 4/5, 42.1; 5/6, 46.3; 7/5, 51.2; 9/6/49, 53.9; 10/10/49, 50.2; 11/10/49, 49.4; 4/5/50, 43.7; 11/6/50, 46.5; 4/2/51, 41.1; 11/20/51, 47.4; 4/2/52, 38.9; 11/6/52, 47.4.

2N/7E-11H1--Reference point-hole in pump base, elevation 62.7 feet. On south side of Waterloo East Road, 0.85 mile east of Waterloo. 12/2/48, 51.0; 3/8/49, 49.6; 4/5, 49.1; 11/10/49, 52.9; 4/5/50, 49.6; 11/6/50, 53.3; 4/2/51, 49.6; 11/20/51, 54.2; 4/4/52, 49.5; 11/6/52, 50.4; 3/31/53, 46.8.

2N/7E-12A2--Reference point-top of base plate, elevation 73.9 feet. On south side of Waterloo East Road, 0.23 mile west of Jack Tone Road. 11/13/29, 35.5; 10/22/30, 37.5; 12/8/31, 39.5; 11/7/32, 40.8; 12/23/33, 41.5; 11/19/34, 43.5; 11/9/36, 42.8; 11/8/37, 41.2; 1/16/38, 37.0; 1/22/41, 40.3; 11/19/47, 51.1; 11/26/47, 51.1; 3/8/48, 55.5; 11/16/48, 54.1; 12/13/48, 53.7; 3/10/49, 51.8; 3/29/49, 50.8; 11/15/49, 56.7; 12/7/49, 57.0; 11/9/50, 57.4; 11/27/51, 57.6..

2N/7E-12M1--Reference point-hole in pump base, elevation 67.4 feet. 0.14 mile east of Beecher Road, 0.4 mile south of East Waterloo Road. 12/10/47, 50.9; 3/10/48, 53.0; 11/12/48, 53.0; 3/30/49, 50.6; 11/10/49, 55.6:

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-12K1--Reference point-top of casing, elevation 70.2 feet. 0.31 mile west of Jack Tone Road, 0.56 mile south of Waterloo East Road. 12/2/47, 48.7; 3/10/48, 50.5; 11/16/48, 51.7; 3/30/49, 49.5; 11/14/49, 55.2.

2N/7E-13C1--Reference point-top of base plate, elevation 61 feet. 0.25 mile east of Beecher Road, 0.25 mile south of Baker Lane. 11/26/47, 46.2; 3/9/48, 47.6; 11/12/48, 49.2; 3/30/49, 46.2; 11/10/49, 52.4.

2N/7E-13B1--Reference point-top of casing, elevation 65.0 feet. 53 feet west of Cognia Road, 106 feet north of Linden Road, at intersection of Cognia and Linden Roads. 11/26/47, 44.5; 3/9/48, 44.6.

2N/7E-13B2--Reference point-capped pipe in concrete elevation 65.1 feet. 0.04 mile south of Baker Lane, 0.25 mile west of Jack Tone Road. 11/16/48, 45.3; 3/30/49, 42.4; 11/14/49, 48.7; 4/5/50, 45.2; 11/6/50, 51.1; 4/4/51, 44.1; 11/20/51.

2N/7E-13A1--Reference point-hole in base, elevation 66.1 feet. Southwest corner Baker Lane and Jack Tone Road. 3/9/48, 45.9; 11/16/48, 45.5; 3/30/49, 42.1; 11/17/49, 48.6.

2N/7E-13A2--Reference point-top of casing, elevation 67.4 feet. 0.03 mile south of Baker Lane, 0.03 mile west of Jack Tone Road. (Measure 3/68) 12/5/47, 48.7; 3/9/48, 45.9.

2N/7E-13J3--Reference point-top of casing, elevation 67.7 feet. On west side of Jack Tone Road, 0.29 mile north of Fairchild Lane. 12/8/48, 50.0; 3/29/49, 48.0; 11/14/49, 53.4.

2N/7E-14P1--Reference point-hole in side of base (under lubricator), elevation 58.2 feet. 0.1 mile north of Fairchild Lane, 0.51 mile west of Rhoden Avenue. 12/10/47, 42.1; 3/10/48, 54.0; 11/12/48, 46.2; 3/8/49, 41.9; 4/6, 42.1; 11/14/49, 48.7; 4/5/50, 43.9; 11/3/50, 50.4; 4/2/51, 45.0; 11/19/51, 49.2; 4/3/52, 43.1; 11/7/52, 49.2; 3/31/53, 43.8.

2N/7E-14R1--Reference point-between concrete base and wooden block under pump, elevation 60 feet. On west side Rhoden Avenue, 0.25 mile north of Fairchild Lane. 12/10/47, 46.9; 3/9/48, 51.8; 12/2/48, 47.8; 3/10/49, 46.2; 4/6/49, 45.8; 11/10/49, 50.1.

2N/7E-15C1--Reference point-hole in pump base, elevation 51.7 feet. 0.45 mile southwest of Baker Road, 0.14 mile north of Waterloo Road. 12/10/47, 47.5; 3/4/48, 46.2; 11/10/48, 52.6; 2/3/49, 48.1; 3/8/49, 46.4; 4/5/49, 44.9; 11/10/49, 45.4; 3/31/50, 46.8; 11/6/50, 56.6; 4/2/51, 47.6; 11/23/51, 52.7; 4/3/52, 41.4; 11/7/52, 49.2; 3/31/53, 42.7.

2N/7E-15A1--Reference point-hole in pump base, elevation 56 feet. 0.17 mile west of Waterloo-Lockford Road, 0.05 mile south of Baker Road. 12/10/47, 56.9; 3/4/48, 57.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-15A2--Reference point-base of pump at slot in concrete, elevation 56 feet. 0.07 mile west of Waterloo-Lockford Road, 0.59 mile south of Waterloo Road. 12/2/48, 53.7; 3/8/49, 50.5; 4/5/49, 50.6; 11/14/49, 56.2.

2N/7E-15H3--Reference point-hole in base plate, elevation 53 feet. On east side Confer Road, 0.5 mile south of Baker Road. 12/10/47, 49.9; 3/4/48, 50.0; 11/12/48, 53.5; 3/8/49, 47.2; 4/6/49, 46.8; 11/14/49, 55.2.

2N/7E-15P2--Reference point-hole in pump base, elevation 52 feet. On west side of Boggianno Lane, 0.53 mile south of Waterloo Road. 12/10/47, 53.4; 3/4/48, 51.8; 11/10/48, 56.5; 3/9/49, 48.9; 4/5/49, 49.1; 11/14/49, 58.7.

2N/7E-16E1--Reference point-top of concrete casing, elevation 45.4 feet. 0.28 mile north on Ashley Road from Cherokee Lane, 0.13 mile east of Ashley Road. 12/11/47, 44.3; 3/4/48, 44.2; 11/10/48, 50.0; 3/10/49, 42.7; 4/5/49, 40.0; 11/10/49, 51.2.

2N/7E-16I1--Reference point-hole in base of pump, elevation 47.7 feet. 0.15 mile northeast on Cherokee Lane from Ashley Road, 0.13 mile south of Cherokee Lane. 12/11/47, 46.6; 3/4/48, 46.0; 11/10/48, 51.8; 3/10/49, 45.7; 4/5/49, 44.1; 11/10/49, 53.6; 3/31/50, 45.6; 11/3/50, 53.4; 4/2/51, 42.7; 11/20/51, 50.8; 4/3/52, 36.7; 11/7/52, 45.1; 3/31/53, 40.4.

2N/7E-16K2--Reference point-top of casing, elevation 49.3 feet. 0.05 mile west of Alpine Road, 0.3 mile north of Waterloo Road. 12/10/47, 49.2; 3/15/48, 47.0; 11/10/48, 53.0; 3/8/49, 46.8; 4/5/49, 45.6; 11/10/49, 55.3.

2N/7E-17B3--Reference point-space between floor and pump under discharge pipe, elevation 44.8 feet. 0.38 mile north on Solari Road from intersection of Solari Road and Calaveras River, thence 0.15 mile east of Solari Road. 12/11/47, 43.5; 3/4/48, 46.0; 11/9/48, 49.6; 3/10/49, 42.3; 4/6/49, 39.5; 11/14/49, 51.0.

2N/7E-17G1--Reference point-top of concrete pipe casing, elevation 41.3 feet. 0.04 mile west of Solari Road, 0.07 mile north of Calaveras River. 12/11/47, 39.8; 3/15/48, 41.5; 4/6/48, 39.7; 5/5/48, 38.3; 9/21/48, 51.1; 11/9/48, 45.3; 12/28/48, 42.2; 3/10/49, 38.8; 4/5/49, 35.8; 11/14/49, 45.8; 3/30/50, 37.1; 11/2/50, 45.4; 4/2/51, 32.7; 11/20/51, 42.9; 4/3/52, 22.5; 11/7/52, 36.0.

2N/7E-17J3--Reference point-pipe in concrete base, elevation 42.2 feet. 0.28 mile north of Cherokee Lane, 0.15 mile east of Solari Road. 12/11/47, 41.1; 3/4/48, 42.2; 4/8/48, 40.5; 5/5/48, 39.5; 9/21/48, 50.8; 11/9/48, 46.1; 12/28/48, 43.5; 3/10/49, 40.2; 4/5/49, 37.7; 11/10/49, 47.5.

THESE ARE THE RESULTS OF THE
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OBTAINED FROM THE
LOCATION OF THE SAMPLES

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DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-18K1--Reference point-hole in pump base, elevation 36.5 feet. 0.62 mile east of Highway 99, 0.27 mile south of Foppiano Road. 12/12/47, 36.7; 3/4/48, 33.6; 4/14/48, 30.7; 5/5/48, 29.5; 9/21/48, 35.5; 11/9/48, 33.3; 1/6/49, 33.1; 2/10/49, 32.8; 3/10/49, 32.1; 4/4/49, 30.5; 5/6/49, 49.2 (oper.); 6/3/49, 29.3; 7/5/49, 30.7; 8/2/49, 33.4; 9/6/49, 35.3; 10/7/49, 35.0; 11/14/49, 34.2; 3/30/50, 30.2; 11/2/50, 35.1; 4/2/51, 28.6; 11/23/51, 32.5; 4/3/52, 21.9; 11/5/52, 26.6; 3/31/53, 24.2.

2N/7E-19K2--Reference point-top of casing, elevation 33 feet. 0.03 mile west of Cherryland Road, 0.10 mile north of Central California Traction Company Railroad. 12/12/47, 32.0; 12/2/48, 34.7; 3/9/49, 33.0; 4/5/49, 30.8; 11/10/49, 36.6.

2N/7E-19C2--Reference point-hole in pump base, elevation 33.9 feet. 0.4 mile east of U. S. Highway 99, 0.2 mile north of Calaveras River. 12/14/47, 29.2; 3/5/48, 32.2; 4/14/48, 23.5; 5/5/48, 22.8; 9/21/48, 28.1; 11/9/48, 37.8; 1/10/49, 33.3; 2/10/49, 31.0; 3/10/49, 28.5; 4/4/49, 26.7; 5/6/49, 21.4; 6/3/49, 22.9; 7/5/49, 25.1; 8/2/49, 28.2; 9/6/49, 29.6; 10/7/49, 30.1; 11/14/49, 26.6; 3/30/50, 24.1; 11/2/50, 29.1; 4/2/51, 23.5; 11/21/51, 29.7; 4/2/52, 15.9; 11/5/52, 22.9.

2N/7E-20E1--Reference point-slot in concrete base, elevation 37 feet. 0.38 mile north of Cherokee Lane, 0.1 mile east of Central California Traction Company Railroad. 12/11/47, 35.7; 3/4/48, 36.9; 11/9/48, 38.2; 3/9/49, 35.2; 4/4/49, 32.2; 11/10/49, 40.7.

2N/7E-20M1--Reference point-top of sill under pump, elevation 37.5 feet. On north side of Cherokee Lane, 0.05 mile northeast of Overheiser Road. 12/12/47, 36.2; 3/15/48, 36.8; 4/6/48, 36.4; 5/5/48, 34.6; 9/21/48, 41.0; 11/9/48, 38.8; 12/28/48, 38.6; 2/10/49, 36.9; 3/10/49, 36.0; 4/4/49, 34.4; 5/6/49, 35.8; 7/5/49, 37.8; 8/2/49, 41.3; 9/6/49, 42.7; 10/7/49, 42.3; 11/10/49, 40.9; 3/31/50, 35.5; 11/6/50, 41.0; 4/2/51, 32.7; 11/21/51, 38.7; 4/2/52, 30.2; 11/5/52, 33.7; 3/31/53, 30.8.

2N/7E-20K2--Reference point-top of casing, elevation 39.4 feet. On the east side Wilmarth Road, 0.30 mile south from the intersection of Cherokee Lane and Wilmarth Road. 12/11/47, 43.9; 3/4/48, 39.3; 11/9/48, 44.3; 3/9/49, 38.9; 4/5/49, 37.7; 11/10/49, 36.7; 3/31/50, 39.7; 11/6/50, 46.0; 4/2/51, 38.6; 11/21/51, 43.3; 4/2/52, 33.0; 11/7/52, 38.3.

2N/7E-20R1--Reference point-hole in base of pump, elevation 41.0 feet. North of Waterloo Road at intersection of White Lane. 4/2/48, 43.3; 5/3/48, 39.3; 6/2/48, 39.8; 7/2/48, 44.7; 8/3/48, 63.8 (oper.); 9/3/48, 63.7 (oper.); 10/1/48, 49.4; 11/1/48, 46.0; 11/10/48, 45.5; 3/9/49, 41.0; 4/5/49, 40.8; 5/3/49, 42.6; 11/10/49, 48.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-21G3--Reference point-top of casing, elevation 47.2 feet. South side of Waterloo Road, 0.45 mile west of Glenwood Road. 12/8/47, 46.7; 3/4/48, 45.9; 11/10/48, 50.2; 3/8/49, 45.3; 4/5/49, 44.3; 11/14/49, 52.6; 3/31/50, 46.5; 11/3/50, 54.3; 4/2/51, 47.2; 11/19/51, well destroyed.

2N/7E-22A2--Reference point-hole in base plate, elevation 56.0 feet. 0.05 mile east of Confer Road and 0.13 mile north of Fairchild Lane. 12/10/47, 42.1; 3/15/48, 43.5; 5/3/48, 40.0; 6/2/48, 41.3; 7/2/48, 49.1; 8/3/48, 51.9; 9/3/48, 53.3; 11/3/48, 46.3; 11/12/48, 45.9; 3/8/49, 42.6; 4/6/49, 41.6; 11/14/49, 48.9; 4/5/50, 43.8; 11/3/50, 50.7; 4/2/51, 42.9; 11/19/51, 47.7; 4/3/52, 42.7; 11/7/52, oper.

2N/7E-22E2--Reference point-top of pipe in base, elevation 50.5 feet. 0.04 mile north of Fairchild Lane and 0.16 mile east of Alpine Road. 12/11/47, 46.6; 3/4/48, 48.3; 11/12/48, 51.8; 3/8/49, 46.7; 4/6/49, 45.8; 11/14/49, 54.8; 4/5/50, 48.4; 11/3/50, 56.9; 4/2/51, 49.8; 11/19/51, 53.9; 4/3/52, 45.7; 11/7/52, 50.4.

2N/7E-22K1--Reference point-pipe in base, elevation 51.6 feet. On west side of Burge Road, 0.33 mile south of Fairchild Lane. 12/11/47, 46.1; 3/15/48, 47.0; 11/12/48, 50.5; 3/8/49, 45.7; 4/6/49, 45.6; 11/14/49, 53.8.

2N/7E-23H1--Reference point-top of casing, elevation 59.9 feet. 0.13 mile west of Rhoden Avenue, 0.43 mile south of Fairchild Lane. 12/11/47, 45.0; 3/10/48, 51.1; 11/12/48, 49.3; 3/8/49, 45.2; 4/16/49, 45.6; 11/10/49, 53.1.

2N/7E-23J2--Reference point-hole in base-plate, elevation 60.4 feet. West side of Rhoden Avenue. 0.67 mile south of Fairchild Lane. 12/10/47, 44.8; 3/10/48, 45.7; 11/12/48, 48.8; 3/8/49, 44.8; 4/6/49, 44.6; 11/10/49, 52.8; 4/5/50, 47.8; 11/3/50, 55.5; 4/2/51, 50.2; 11/19/51, 54.4; 4/3/52, 47.9; 11/7/52, 53.4; 3/31/53, 48.6.

2N/7E-23N1--Reference point-slot in concrete base, elevation 54 feet. 0.08 mile west of Giovannoni Road, 0.78 mile south of Fairchild Lane. 12/10/47, 53.4; 11/12/48, 47.5; 3/8/49, 43.9; 4/6/49, 43.0; 11/14/49, 50.9; 4/5/50, 45.7; 11/3/50, 53.8; 4/2/51, 46.6; 11/19/51, 52.7; 4/3/52, 45.6; 11/7/52, 50.0.

2N/7E-24B1--Reference point-air gage hole, elevation 65.9 feet. 0.07 mile south of Fairchild Lane, 0.42 mile west of Jack Tone Road. 12/10/47, 48.2; 12/8/48, 51.0; 3/30/49, 48.4; 11/14/49, 54.1; 4/5/50, 51.5; 11/6/50, 57.9; 4/3/51, 52.8; 11/20/51, 57.4; 4/3/52, 52.5; 11/6/52, 60.1; 3/31/53, 51.6.

2N/7E-24J1--Reference point-hole in pump base, elevation 63 feet. On west side of Tangeman Road, 0.56 mile north of Linden Road. 12/10/47, 44.3; 3/12/48, 46.6; 11/15/48, 47.9; 3/30/49, 43.9; 11/16/49, 52.4.

THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT NO. 1000
JANUARY 1960

1. The first part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

2. The second part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

3. The third part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

4. The fourth part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

5. The fifth part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

6. The sixth part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

7. The seventh part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

8. The eighth part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

9. The ninth part of the report describes the synthesis and properties of a new class of compounds, the 1,2-dithiolanes. These compounds are formed by the reaction of a dithiol with a carbonyl compound in the presence of a catalyst. The reaction is carried out in a sealed tube at 150°C for 24 hours. The products are purified by distillation and characterized by infrared and mass spectrometry.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-25A2--Reference point-top of casing, elevation 65.4 feet. Southwest corner of Linden Road and Jack Tone Road. 12/10/47, 54.7; 3/10/48, 44.5; 11/15/48, 48.6; 3/29/49, 45.2; 11/16/49, 53.0.

2N/7E-25L1--Reference point-pipe in concrete base, elevation 60 feet. 0.53 mile west of Jack Tone Road, 0.88 mile north of Southern Pacific Railroad. 12/13/47, 41.8; 3/12/48, 45.3; 11/23/48, 46.4; 3/9/49, 42.6; 4/5/49, 41.9; 11/17/49, 50.8.

2N/7E-25R2--Reference point-top of casing, elevation 65 feet. On west side of Jack Tone Road, 0.63 mile north of Southern Pacific Railroad. 12/12/47, 41.3; 3/9/48, 41.7; 11/23/48, 45.8; 3/9/49, 42.9; 4/5/49, 42.5; 11/17/49, 50.3.

2N/7E-26E1--Reference point-pump base hole, elevation 53.9 feet. 0.7 mile east of Glenwood Road, 0.18 mile north of Linden Road. 12/13/47, 42.6; 3/11/48, 42.1; 4/7/48, 41.0; 5/3/48, 40.3; 6/13/48, 42.9; 7/15/48, 45.6; 9/2/48, 49.7; 9/20/48, 49.8; 10/4/48, 48.8; 11/1/48, 47.1; 11/23/48, 46.2; 12/1/48, 46.0; 1/8/49, 44.5; 2/10/49, 43.5; 3/31/49, 42.1; 5/2/49, 59.6; 5/6/49, 45.1; 11/16/49, 50.6.

2N/7E-26F1--Reference point-hole in base of pump, elevation 54.9 feet. 1.06 miles east of Glenwood, 0.15 mile north of Linden Road. 12/13/47, 39.9; 3/12/48, 39.9; 11/23/48, 43.5; 3/31/49, 39.5; 11/16/49, 47.6.

2N/7E-26H2--Reference point-hole in pump base, elevation 58.4 feet. On west side of Rhoden Avenue, 1.37 miles south of intersection of Rhoden Avenue and Fairchild Lane. 12/13/47, 44.1; 3/11/48, 43.2; 4/7/48, 41.7; 5/6/48, 41.0; 6/13/48, 45.5; 5/15/48, 49.7; 11/12/48, 47.0; 1/6/49, 46.3; 3/10/49, 42.8; 4/6/49, 42.2; 11/10/49, 51.2.

2N/7E-26N1--Reference point-pipe in concrete base, elevation 50.8 feet. 0.4 mile east of Glenwood Road, 0.24 mile south of Linden Road. 12/13/47, 40.5; 3/11/48, 39.1; 11/23/48, 43.0; 3/31/49, 39.5; 11/16/49, 48.2; 4/4/50, 44.6; 11/3/50, 51.8; 4/3/51, 30.3; 11/19/51, 42.5; 4/3/52, 43.1; 11/6/52, 51.7; 3/30/53, 44.3.

2N/7E-27D1--Reference point-top of casing, elevation 47.5 feet. 0.28 mile north of Stockton Terminal and Eastern Railroad, 0.19 mile west of Alpine Road. 12/11/47, 45.9; 3/4/48, 46.1; 11/12/48, 50.4; 3/8/49, 45.7; 4/6/49, 45.2; 11/14/49, 53.7; 11/3/50, 56.5; 4/2/51, 48.5; 11/23/51, 53.4; 4/3/52, 46.1; 11/7/52, 50.4; 3/31/53, 46.4.

2N/7E-27C2--Reference point-slot in concrete base, elevation 48 feet. On south side of Stockton Terminal and Eastern Railroad, 0.16 mile east of Alpine Road. 12/11/47, 43.6; 3/11/48, 43.8; 11/12/48, 47.6; 3/8/49, 43.2; 11/14/49, 51.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-27P1--Reference point-groove in concrete, elevation 46 feet. 0.24 mile west of Glenwood Road, 0.28 mile north of Linden Road. 12/13/47, 43.7; 3/19/48, 39.1; 11/23/48, 43.6; 3/31/49, 39.7; 11/16/49, 48.6; 4/4/50, 43.4; 11/3/50, 52.0; 4/3/51, 43.7; 11/19/51, 50.0; 4/3/52, 42.3; 11/6/52, 47.9.

2N/7E-28G2--Reference point-top of casing under pump, elevation 42 feet. On north side Stockton Terminal and Eastern Railroad, 0.1 mile west of Arata Road. 12/15/47, 43.8; 3/9/48, 45.2; 11/12/48, 49.6.

2N/7E-28M1--Reference point-hole in pump base, elevation 38 feet. Northeast corner of intersection of White Lane and Stockton Terminal and Eastern Railroad. 12/15/47, 42.2; 9/20/48, 46.4; 11/24/48, 43.3; 3/9/49, 39.7; 4/5/49, 38.8; 11/16/49, 47.7.

2N/7E-28Q1--Reference point-hole in pump base, elevation 40 feet. 0.1 mile east of Baldwin Road, 0.52 mile north of Linden Road. 12/15/47, 39.1; 3/11/48, 39.1; 4/7/48, 37.7; 5/6/48, 36.9; 6/13/48, 38.6; 7/15/48, 42.6; 9/20/48, 48.5; 11/24/48, 43.3; 1/9/49, 41.6; 3/13/49, 39.0; 11/16/49, 47.9.

2N/7E-29C1--Reference point-top of I-beam across pit, elevation 36 feet. On west side of Overheiser Road, 0.49 mile south of Cherokee Road. 11/10/47, 45.2; 12/15/47, 37.8; 3/12/48, 39.2; 11/9/48, 42.7; 3/9/49, 39.3; 4/5/49, 38.3.

2N/7E-29A2--Reference point-pipe in concrete base, elevation 40 feet. On west side of White Lane, 0.14 mile south of Waterloo Road. 12/11/47, 43.0; 3/15/48, 44.5; 11/9/48, 46.5; 3/9/49, 42.2; 4/5/49, 41.1; 11/10/49, 48.7.

2N/7E-29Q1--Reference point-hole in pump base, elevation 35 feet. 0.06 mile east of Beyer Lane, 0.1 mile south of Stockton Terminal and Eastern Railroad. 12/15/47, 37.7; 3/12/48, 36.5; 11/24/48, 40.8; 3/31/49, 36.3; 11/16/49, 45.8.

2N/7E-30F2--Reference point-pipe in side of concrete base, elevation 30 feet. On south side of Cherokee Lane, 0.60 mile northeast of Waterloo-Cherokee intersection. 12/15/47, 33.8; 3/9/48, 35.0; 11/9/48, 37.1; 3/9/49, 34.6; 4/4/49, 33.4; 11/10/49, 39.0.

2N/7E-30J1--Reference point-hole in pump base plate, elevation 32 feet. On west side of Cherry Lane, 0.18 mile north of Waterloo Road. 12/15/47, 36.0; 3/9/48, 35.6; 11/29/48, 38.5; 3/31/49, 34.9; 11/16/49, 41.6; 3/31/50, 36.9; 11/2/50, 42.9; 4/3/51, 33.4; 11/20/51, well destroyed.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-31A1--Reference point-pipe in concrete base, elevation 30.2 feet. 0.08 mile southeast of Stockton Terminal and Eastern Railroad, 0.23 mile northeast of diverting canal. 12/16/47, 39.4; 3/12/48, 30.8; 5/6/48, 29.0; 9/20/48, 40.5; 11/23/48, 39.4; 1/9/49, 37.8; 2/10/49, 35.7; 3/31/49, 32.3; 5/6/49, 65.0 (oper.); 7/5/49, 41.3; 8/3/49, 68.4 (oper.); 9/7/49, 49.7; 10/7/49, 43.8; 11/2/50, 44.8; 4/30/51, 30.0; 10/22/51, 41.6; 11/5/52, 38.7; 3/30/53, 34.4.

2N/7E-31F1--Reference point-hole in pump base, elevation 27 feet. On west side of Stockton By-pass, 0.3 mile south of Waterloo Road. 12/16/47, 35.7; 3/12/48, 27.1; 4/9/48, 25.8; 5/6/48, 26.3; 9/20/48, 37.5; 1/9/49, 36.0; 2/10/49, 34.5; 3/9/49, 32.3; 4/5/49, 30.7; 5/6/49, 32.7; 6/3/49, 35.1; 8/3/49, 46.7 (oper.); 9/7/49, 40.7; 10/7/49, 41.1; 11/16/49, 40.5; 4/7/50, 34.7; 11/2/50, 42.5; 4/3/51, 28.9; 11/19/51, 40.9; 4/2/52, 28.8; 11/10/52, 35.2; 3/30/53, 32.8.

2N/7E-32G1--Reference point-hole in side of pump base, elevation 31.2 feet. 0.17 mile east and 0.06 mile south of Beyer Lane, 0.38 mile north of Linden Road. 12/15/47, 36.0; 3/9/48, 33.0; 4/9/48, 30.6; 5/6/48, 30.0; 9/20/48, 41.2; 11/24/48, 38.9; 1/8/49, 37.7; 3/31/49, 32.8; 11/16/49, 43.5; 4/7/50, 36.5; 11/2/50, 45.5; 4/3/51, 30.3; 11/19/51, 42.5; 4/2/52, 33.4; 11/6/52, 41.5.

2N/7E-32L3--Reference point-top of casing, elevation 33.5 feet. 0.07 mile west of Beyer Lane, 0.18 mile north of Linden Road. 12/15/47, 38.2; 3/9/48, 31.2; 11/23/48, 36.4; 3/31/49, 32.1; 4/7/50, 40.3.

2N/7E-32P2--Reference point-top of casing, elevation 28 feet. 0.12 mile south of Linden Road, 0.22 mile west of diverting canal. 12/16/47, 36.2; 3/9/48, 31.1; 11/24/48, 38.7; 4/6/49, 31.1; 11/16/49, 42.8.

2N/7E-32R1--Reference point-top of casing, elevation 32 feet. On northeast side of diverting canal., 0.27 mile south of Linden Road. 12/15/47, 37.7; 4/14/48, 25.7; 11/24/48, 40.2; 3/31/49, 30.5; 11/16/49, 45.2; 4/7/50, 37.1; 11/2/50, 46.8; 4/3/51, 27.1; 11/23/51, 44.4; 4/2/52, 25.3; 11/6/52, 41.5; 3/30/53, 37.0.

2N/7E-33D1--Reference point-hole in side of pump base, elevation 37 feet. On east side of White Lane, 0.45 mile north of Linden Road. 12/15/47, 39.9; 3/9/48, 40.2; 11/24/48, 43.3; 3/9/49, 39.8; 4/5/49, 38.7; 11/16/49, 48.0; 4/7/50, 42.0; 11/2/50, 51.0; 4/3/51, 41.8; 11/19/51, 47.4; 4/4/51, 38.5; 11/6/52, 45.3; 3/30/53, 41.9.

2N/7E-33A1--Reference point-slot in concrete base, elevation 43.6 feet. 0.16 mile north of Linden Road, 0.39 mile east of Baldwin Road. 12/15/47, 38.8; 3/19/48, 39.8; 11/23/48, 43.2; 3/31/49, 39.5; 11/16/49, 48.0; 4/4/50, 42.9; 11/3/50, 51.1; 4/3/51, 41.4; 11/19/51, 48.8; 11/6/52, 47.0.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-33F1--Reference point-hole in pump base, elevation 36 feet. On north side of Linden Road, 0.09 mile west of White Lane. 12/15/47, 37.3; 3/9/48, 37.3; 11/23/48, 40.3; 3/9/49, 36.5; 4/5/49, 35.1; 11/16/49, 45.0.

2N/7E-33R1--Reference point-top of casing, elevation 36 feet. 0.66 mile north of Copperopolis Road, 1.07 miles west of Alpine Road, 12/15/47, 35.2; 3/9/48, 35.3; 11/24/48, 38.3; 4/7/49, 33.6; 11/16/49, 40.5; 4/6/50, 37.0; 11/3/50, 45.6; 11/21/51, 44.6; 4/3/52, 33.4; 11/10/52, 42.8; 3/30/53, 37.2.

2N/7E-34C1--Reference point-hole in pump base, elevation 44.9 feet. On south side of Linden Road, 0.4 mile west of Glenwood Road. 4/14/48, 37.5; 5/1/48, 37.0; 10/4/48, 45.3; 11/3/48, 43.4; 11/23/48, 42.7; 3/10/49, 39.9; 4/5/49, 40.7; 5/2/49, 44.4; 11/15/49, 47.4.

2N/7E-34C2--Reference point-top of casing, elevation 45.6 feet. 0.05 mile south of Linden Road, 0.26 mile southwest of Glenwood Road. 12/13/47, 40.1; 3/11/48, 39.3; 4/7/48, 38.1; 5/6/48, 37.1; 6/13/48, 39.5; 7/15/48, 43.4; 9/20/48, 46.1; 11/23/48, 43.0; 1/11/49, 41.6; 3/10/49, 40.0; 4/5/49, 39.7; 11/16/49, 48.1; 4/4/50, 46.0; 11/3/50, 51.8; 4/3/51, 42.8; 11/19/51, 49.7; 4/3/52, 41.7; 11/6/52, 47.5.

2N/7E-34L1--Reference point-pump base hole, elevation 44 feet. 0.07 mile south of Southern Pacific Railroad, 0.4 mile west of Alpine Road. 12/13/47, 38.5; 11/24/48, 41.1; 3/10/49, 38.8; 4/5/49, 38.1; 11/15/49, 46.4.

2N/7E-34J2--Reference point-hole in pump base, elevation 46 feet. On west side of Alpine Road, 0.2 mile south of Southern Pacific Railroad. 12/13/47, 37.0; 3/11/48, 36.5; 11/24/48, 39.2; 9/5/49, 37.8; 11/16/49, 46.0.

2N/7E-35B1--Reference point-pump base hole, elevation 53 feet. On south side of Finkbohner Road, 0.97 mile east of Glenwood Road. 12/13/47, 39.4; 3/11/48, 39.0; 11/23/48, 43.1; 3/31/49, 39.9; 11/16/49, 48.6.

2N/7E-35L1--Reference point-hole in pump base, elevation 50.9 feet. 0.75 mile east of Alpine Road, 0.2 mile north of Southern Pacific Railroad. 12/13/47, 34.8; 3/11/48, 34.5; 11/24/48, 38.0; 3/10/49, 36.4; 4/5/49, 35.7; 11/16/49, 43.4; 4/6/50, 39.9; 11/3/50, 47.3; 4/3/51, 41.8; 11/21/51, 47.3; 4/3/52, 39.9; 11/10/52, 46.3; 3/30/53, 41.8.

2N/7E-36H1--Reference point-top of casing under pump, elevation 60 feet. 0.13 mile west of Jack Tone Road, 0.25 mile north of Southern Pacific Railroad. 12/12/47, 38.0; 11/23/48, 40.3; 11/17/49, 44.9; 4/4/50, 40.5; 11/6/50, 47.9; 4/3/51, 41.4; 11/23/51, 48.1; 4/4/52, 41.9; 11/7/52, 48.4; 3/27/53, 48.1

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DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/7E-36N1--Reference point-hole in pump base, elevation 55.7 feet. On west side of Best Road, 0.38 mile north of Milton Road. 12/12/47, 36.2; 3/11/48, 33.6; 11/23/48, 37.9; 3/9/49, 34.4; 4/5, 33.9; 11/17/49, 43.0; 4/6/50, 39.5; 11/6/50, 49.3; 4/3/51, 40.1; 10/20/51, 48.7; 4/4/52, 41.3; 11/7/52, 48.6.

2N/7E-36R1--Reference point-hole in base of pump, elevation 61.0 feet. 0.09 mile west of Jack Tone Road, 0.08 mile north of Milton Road. 3/3/48, 33.0; 6/1, 32.3; 7/2, 59.4; 8/2, 60.2; 9/1, 61.4; 10/1, 40.1; 11/1, 39.0; 11/23/48, 38.5; 12/1/48, 38.3; 3/9/49, 35.9; 4/5, 37.7; 11/17/49, 43.3; 4/4/50, 38.9; 11/6/50, 45.5; 4/3/51, 38.2; 11/20/51, 46.4; 4/4/52, 38.9; 11/7/52, 46.5.

2N/8E-21L--Reference point-top of pipe in concrete base, elevation 109 feet. 0.41 mile east of Clements Road, 0.37 mile north of Waterloo East Road. 11/25/47, 71.3; 3/2/48, 77.0; 4/7, 71.3; 11/18/48, 74.7; 1/10/49, 72.8; 2/10, 72.0; 3/8, 71.4; 4/1, 70.1; 5/5, 80.5; 11/16/49, 52.9.

2N/8E-2Q2--Reference point-top, elevation 110 feet. On north side Waterloo East Road, 0.61 mile east of Clements Road. 12/6/47, 68.6; 3/10/48, 80.8; 11/18/48, 72.0; 3/8/49, 68.5; 4/1, 66.8; 11/17/49, 74.9.

2N/8E-3F1--Reference point-slot in base, elevation 101.5 feet. 0.35 mile east of Duncan Road, 0.07 mile north of Eight Mile Road. 12/6/48, 69.7; 3/9/49, 67.0; 4/1, 66.2; 11/11/49, 74.0.

2N/8E-3G1--Reference point-top of casing, elevation 105 feet. On north side Eight Mile Road, 0.74 mile east of Duncan Road. 11/25/47, 71.5; 3/2/48, 71.6; 4/7, 71.2; 5/4, 70.6; 9/21, 74.7; 11/29/48, 73.9; 1/10/49, 73.1; 2/3, 72.7; 3/8, 72.3; 4/1, 71.8; 11/11/49, 76.9; 4/5/50, 73.9; 11/7/50, 77.4; 4/3/51, 73.7; 11/21/51, 81.1; 4/3/52, 73.3; 11/7/52, 76.1.

2N/8E-3R2--Reference point-hole in base plate, elevation 106 feet. By Calaveras River, 0.89 mile east of Duncan Road. 11/25/47, 70.3; 3/2/48, 77.8; 4/7, 70.3; 5/4, 69.4; 9/23, 81.4; 11/15, 74.1; 12/28/48, 72.5; 2/3/49, 73.0; 11/15/49, 75.8.

2N/8E-4C1--Reference point-top of base plate, elevation 93.5 feet. 1.0 mile east of Tully Road, 0.1 mile south of Eight Mile Road. 3/18/48, 63.6; 4/7, 61.2; 5/3, 60.8; 5/4, 60.8; 6/1, 60.1; 8/3, 75.1; 9/21, 71.4; 10/4, 67.5; 11/3, 64.6; 11/29, 64.2; 12/28/48, 62.2; 3/9/49, 61.8; 4/1, 60.7; 5/3, 65.8; 11/11/49, 67.9; 4/5/50, 63.3; 11/7/50, 68.6; 4/3/51, 62.8; 11/21/51, 68.4; 4/3/52, 62.9; 11/7/52, 67.7; 3/26/53, 63.6.

2N/8E-4L1--Reference point hole in pump base, elevation 92.2 feet. 0.54 mile west of Duncan Road, 0.45 mile north of Waterloo East Road. 11/26/47, 60.5; 3/2/48, 72.6; 11/16/48, 64.5; 3/30/49, 60.4; 11/15/49, 67.2; 4/5/50, 62.9; 11/6/50, 68.3; 4/4/51, 62.1; 11/23/51, 67.4; 4/4/52, 62.1; 11/6/52, 67.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-4J1--Reference point-hole in pump base, elevation 98.4 feet. 0.07 mile west of Duncan Road, 0.36 mile north of Waterloo East Road. 11/28/47, 64.5; 3/18/48, 69.2; 11/15/48, 67.9; 3/30/49, 63.2; 11/15/49, 70.5.

2N/8E-5G1--Reference point-top of base plate, elevation 84.8 feet. 0.41 mile south of Eight Mile Road, 0.25 mile east of Tully Road. 11/26/47, 55.7; 3/3/48, 63.3; 11/29/48, 58.3; 3/8/49, 56.0; 4/1, 54.9; 11/11/49, 62.1.

2N/8E-5P1--Reference point-hole in base, elevation 81 feet. 0.05 mile north of Waterloo East Road, 0.1 mile west of Tully Road. 12/2/48, 64.6; 3/29/49, 56.8; 11/15/49, 63.6.

2N/8E-6D1--Reference point-top of concrete base, elevation 71.8 feet. 0.29 mile east of Jack Tone Road, 0.09 mile south of Eight Mile Road. 12/1/47, 46.1; 3/8/48, 51.1; 11/30/48, 49.3; 3/9/49, 47.3; 4/1, 46.2; 11/11/49, 53.2.

2N/8E-6A2--Reference point-hole in pump base, elevation 79.6 feet. 0.52 mile west of Tully Road, 0.15 mile south of Eight Mile Road. 11/28/47, 50.9; 3/8/48, 57.7; 11/29/48, 54.7; 3/9/49, 52.4; 4/1, 51.5; 11/11/49, 58.3.

2N/8E-7B1--Reference point-hole in base plate, elevation 76 feet. 0.51 mile west of Tully Road, 0.18 mile south of Waterloo East Road. 11/26/47, 50.3; 3/9/48, 55.2; 11/16/48, 53.8; 2/3/49, 51.3; 3/29/49, 50.4; 11/15/49, 56.8.

2N/8E-7N1--Reference point-top of casing, elevation 67.8 feet. On east side of Jack Tone Road, 0.24 mile north of Baker Lane. 12/5/47, 44.2; 3/9/48, 47.2; 11/16/48, 47.5; 3/30/49, 44.5; 11/14/49, 50.5; 4/5/50, 47.9; 11/6/50, 52.3; 4/4/51, 47.3; 11/20/51, 51.7; 4/4/52, 46.8; 11/6/52, 50.5.

2N/8E-7P1--Reference point-top concrete base, elevation 70.7 feet. 0.06 mile north of Baker Lane, 0.45 mile east of Jack Tone Road. 11/26/47, 45.7; 3/9/48, 48.4; 11/15/48, 48.9; 2/3/49, 46.8; 2/10/49, 47.7; 3/30/49, 46.0; 5/5/49, 49.6; 11/14/49, 52.2.

2N/8E-8B1--Reference point-hole in pump base, elevation 84.0 feet. On south side of Waterloo East Road. 0.24 mile east of Tully Road. 11/26/47, 54.5; 3/2/48, 63.0; 11/16/48, 58.0; 3/29/49, 54.5; 11/13/49, 61.5; 4/5/50, 56.7; 11/6/50, 62.2; 4/4/51, 56.2; 11/20/51, 61.6; 4/4/52, 56.2; 11/6/52, 62.2.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-8N1--Reference point-hole in base plate, elevation 77.5 feet. On west side of Tully Road, 0.18 mile north of Baker Lane. 12/1/47, 49.3; 3/3/48, 56.2; 11/15/48, 53.0; 3/30/49, 49.6; 11/15/49, 56.4; 4/5/50, 54.8; 11/6/50, 57.9; 4/4/51, 52.2; 11/20/51, 57.0; 4/4/52, 52.1; 11/6/52, 58.3; 3/31/53, 54.0.

2N/8E-8Q1--Reference point-hole in base plate, elevation 79.5 feet. 0.5 mile east of Tully Road, 0.24 mile north of Baker Lane. 11/26/47, 51.1; 3/23/48, 51.6; 11/15/48, 54.8; 3/30/49, 51.2; 11/15/49, 58.6; 4/4/51, 55.1; 4/4/52, 52.3.

2N/8E-9B1--Reference point-pump base, elevation 0.13 mile south of Waterloo East Road, 0.45 mile west of Duncan Road. 9/22/47, 63.6; 12/5/47, 32.9; 3/3/48, 24.3; 11/16/48, 28.1; 3/29/49, 32.3; 11/15/49, 24.9; 4/5/50, 29.6; 11/6/50, 23.7; 4/4/52, 58.9; 11/6/52, 63.5; 3/31/53, 61.3.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-9H2--Reference point-hole in pump base, elevation 91.1 feet. On west side of Duncan Road, 0.4 mile south of Waterloo East Road. 11/25/47, 57.7; 3/17/48, 59.8; 11/15/48, 64.0; 3/29/49, 57.6; 11/15/49, 64.5; 11/6/50, 65.3; 4/4/51, 59.0; 11/20/51, 64.4; 4/4/52, 58.9; 11/6/52, 64.5.

2N/8E-9M1--Reference point-hole in base plate, elevation 86.0 feet. 0.77 mile west of Duncan Road, 0.44 mile north of Baker Lane. 12/1/47, 53.7; 3/2/48, 64.0; 11/15/48, 58.4; 3/30/49, 54.5; 11/13/49, 62.0; 4/5/50, 57.2; 11/6/50, 62.9; 4/4/51, 56.6; 11/23/51, 62.0; 4/4/52, 56.6; 11/6/52, 61.9.

2N/8E-10C1--Reference point-top of casing (3' above ground), elevation 98 feet. 0.1 mile south of Waterloo East Road, 0.49 mile east of Duncan Road. 11/28/47, 60.7; 3/2/48, 69.5; 11/15/48, 65.1; 3/29/49, 60.9; 11/15/49, 65.9.

2N/8E-10E1--Reference point-casing top, elevation 91 feet. On east side of Duncan Road, 0.46 mile south of Waterloo East Road. 12/5/47, 30.9; 3/2/48, 66.2; 11/15/48, 61.5; 3/29/49, 58.6; 11/15/49, 65.9.

2N/8E-10H1--Reference point-slot in concrete, elevation 106.4 feet. On east side of Cox Road, 0.34 mile south of Waterloo East Road. 11/28/47, 70.6; 3/2/48, 79.0; 11/15/48, 74.6; 2/3/49, 71.8; 3/29/49, 70.3; 11/15/49, 76.6; 4/5/50, 72.5; 11/6/50, 76.7; 4/4/51, 70.9; 11/20/51, 76.0; 4/4/52, 70.7; 11/6/52, (oper.); 3/31/53, 77.0.

2N/8E-10N1--Reference point-hole in base plate, elevation 87.7 feet. 0.11 mile north of Baker Lane, 0.15 mile east of Duncan Road. 11/26/47, 53.9; 3/18/48, 55.7; 11/15/48, 57.5; 3/29/49, 53.5; 11/15/49, 60.7; 4/5/50, 56.5; 11/6/50, 61.4; 4/4/51, 55.9; 11/20/51, 60.5; 4/4/52, 55.3; 11/6/52, 61.7.

2N/8E-10Q3--Reference point-slot in concrete base, elevation 92 feet. On west side Cox Road, 0.16 mile north of Baker Lane. 11/28/47, 59.3; 3/2/48, 70.6; 11/15/48, 60.2; 3/29/49, 56.1; 11/16/49, 61.8.

2N/8E-11B1--Reference point-top of I-beam under pump, elevation 106 feet. On south side of Waterloo East Road, 0.52 mile east of Clements Road. 11/25/47, 65.9; 3/18/48, 67.7; 5/3/48, 65.2; 6/2/48, 64.9; 7/1/48, 96.6 (oper.); 8/2/48, 82.2; 9/1/48, 91.3 (oper.); 9/20/48, 76.8; 9/30/48, 73.9; 11/3/48, 70.5; 11/18/48, 69.2; 12/29/48, 68.1; 2/10/49, 66.4; 3/8/49, 65.8; 4/1/49, 64.4; 5/5/49, 69.3; 8/3/49, 82.4 (oper.); 9/8/49, 86.8; 10/7/49, 73.6; 11/16/49, 71.3; 4/5/50, 67.0; 11/3/50, 75.4; 4/2/51, 64.4; 11/20/51, 73.7; 4/4/52, 64.8; 11/6/52, 69.3; 3/26/53, 66.6.

2N/8E-11E1--Reference point-base of pump, elevation 113.7 feet, 0.16 mile west of Wall Road, 0.55 mile south of Waterloo East Road. 12/6/47, 74.0; 3/2/48, 83.7; 11/18/48, 78.3; 3/8/49, 75.2; 4/1/49, 74.0; 11/18/49, 80.0; 4/5/50, 76.1; 11/3/50, 83.7; 4/2/51, 79.6; 11/21/51, 85.9; 4/4/52, 78.7; 11/6/52, 83.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-11F1--Reference point-slot in concrete base, elevation 103 feet. 0.18 mile east of Wall Road, 0.27 mile south of Waterloo East Road. 11/28/47, 64.2; 3/2/48, 73.7; 11/18/48, 68.0; 3/8/49, 64.7; 4/1/49, 63.5; 11/16/49, 69.1.

2N/8E-11Q1--Reference point-top of I beams, elevation 98 feet. On south side Morrill Road, 0.25 mile east of Wall Road. 11/25/47, 33.4; 3/2/48, 71.3; 11/18/48, 65.7; 3/8/49, 64.6; 4/1/49, 62.1; 11/19/49, 65.5.

2N/8E-12C2--Reference point-hole in base plate, elevation 110 feet. On west side Fine Road, 0.77 mile north of Linden Road. 11/28/47, 63.3; 11/18/48, 67.4; 3/8/49, 64.1; 4/1/49, 63.2; 11/17/49, 68.6.

2N/8E-12M1--Reference point-top of pipe in concrete base, elevation 103 feet. On south side Morrill Road, 1.06 mile east of Wall Road, via Morrill Road. 11/28/47, 62.4; 3/1/48, 71.3; 4/7/48, 62.2; 5/4/48, 61.0; 6/13/48, 66.5; 9/20/48, 73.2; 11/18/48, 66.0; 12/29/48, 64.6; 3/8/49, 63.1; 4/1/49, 62.0; 11/17/49, 67.4.

2N/8E-12L1--Reference point-top of concrete pump base, elevation 109.5 feet. On west side of Fine Road, 0.36 mile north of Linden Road. 11/24/47, 65.6; 11/18/48, 69.0; 3/8/49, 65.9; 4/1/49, 64.7; 11/17/49, 73.2; 4/5/50, 66.8; 11/3/50, 70.8; 4/2/51, 64.8; 11/20/51, 69.9; 4/4/52, 65.3; 11/6/52, 69.9; 3/26/53, 67.2.

2N/8E-12J2--Reference point-hole in pump base, elevation 112 feet. On north side of Highway 8, 0.42 mile east of Fine Road. 11/24/47, 65.8; 12/6/47, 65.4; 3/1/48, 68.7; 4/7/48, 65.0; 5/4/48, 64.0.

2N/8E-12P1--Reference point-top of I beam, elevation 111.3 feet. 0.05 mile west of Fine Road, 0.16 mile north of Linden Road. 12/6/47, 66.4; 3/10/48, 75.7; 11/18/48, 70.6; 3/8/49, 67.4; 4/1/49, 66.4; 11/19/49, 72.6; 4/5/50, 68.4; 11/3/50, 74.4; 4/2/51, 69.2; 11/20/51, 71.2.

2N/8E-13L1--Reference point-pipe in concrete floor, elevation 104.6 feet. On west side Fine Road, 0.36 mile south of Mormon Slough. 8/2/48, 79.5; 9/1/48, 83.8; 10/4/48, 67.7; 12/6/48, 63.3; 6/1/49, 67.6; 8/1/49, 81.6 (oper.); 9/1/49, 74.3; 10/3/49, 70.3.

2N/8E-13K1--Reference point-hole in pump base, elevation 106.4 feet. 0.10 mile east of Fine Road. 0.47 mile south of Mormon Slough. 11/24/47, 61.3; 3/1/48, 64.7; 4/7/48, 61.6; 5/4/48, 59.7; 9/20/48, 70.9; 11/17/48, 65.4; 1/11/49, 63.2; 3/9/49, 61.5; 4/4/49, 61.1; 11/18/49, 67.1; 4/7/50, 63.5; 11/3/50, 69.0; 4/2/51, 62.3; 11/20/51, 67.5; 4/4/52, 62.7; 11/6/52, 69.2; 3/27/53, 64.3.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-14C1--Reference point-top of pump base, elevation 95 feet. 0.1 mile north of Linden Road, 0.19 mile east of Wall Road. 11/25/47, 57.6; 3/1/48, 67.5; 4/7/48, 58.6; 5/6/48, 55.9; 9/20/48, 71.8; 11/18/48, 60.9; 12/29/48, 59.4; 2/10/49, 58.9; 3/8/49, 57.7; 4/1/49, 56.8; 5/5/49, 71.9 (oper.); 8/3/49, 83.5; 9/8/49, 79.8; 10/7/49, 68.0; 4/5/50, 59.2; 11/3/50, 64.2; 4/2/51, 57.8; 11/20/51, 63.4; 4/4/52, 59.7; 11/6/52, 63.8; 3/27/53, 61.3.

2N/8E-14B1--Reference point-concrete platform below pump base, elevation 100.6 feet. 0.07 mile north of Linden Road, 0.57 mile east of Wall Road. 9/22/47, 75.0; 12/2/48, 67.7; 3/8/49, 64.4; 4/1/49, 63.3; 11/18/49, 65.7.

2N/8E-14A1--Reference point-top of casing, elevation 102 feet. 0.09 mile south of Linden Road, 0.55 mile west of Fine Road. 11/24/47, 61.0; 3/1/48, 69.7; 11/18/48, 66.5; 3/8/49, 62.9; 4/1/49, 62.1; 11/17/49, 70.5.

2N/8E-14J1--Reference point-hole in base plate, elevation 104 feet. On south-east side Mormon Slough, 0.38 mile north of and 0.57 mile west of the northern intersection of Flood and Fine Roads. 11/28/47, 60.0; 11/16/48, 65.5; 11/18/49, 63.7.

2N/8E-14N1--Reference point-top of I beams and 24" above casing, elevation 91 feet. On east side Flood Road, 0.27 mile south of Linden Road. NOTE: elevation reference point 67.0 feet before November, 1948. 11/28/47, 30.6; 3/2/48, 38.7; 11/16/48, 58.4; 3/8/49, 55.1; 4/1/49, 53.8; 11/17/49, 61.9; 4/7/50, 57.4; 11/3/50, 62.6; 4/2/51, 56.1; 11/20/51, 62.0; 4/4/52, 55.8; 11/6/52, 62.1.

2N/8E-15D1--Reference point-pump base hole, elevation 88 feet. 0.24 mile east of Duncan Road, 0.25 mile south of Baker Lane. 12/5/47, 56.1; 3/19/48, 56.2; 5/3/48, 54.2; 6/1/48, 54.2; 12/8/48, 59.1; 3/29/49, 55.6; 5/2/49, 60.5.

2N/8E-15M2--Reference point-top of pipe in concrete base, elevation 85.6 feet. 0.1 mile east of Duncan Road, 0.25 mile north of Linden Road. 11/26/47, 50.9; 3/18/48, 52.4; 4/7/48, 50.3; 5/6/48, 49.4; 6/13/48, 62.4; 7/15/48, 64.7; 11/12/48, 54.9; 1/6/49, 52.7; 3/29/49, 51.1; 11/15/49, 59.0; 4/5/50, 53.6; 11/6/50, 59.5; 4/4/51, 53.1; 11/20/51, 58.8; 4/4/52, 53.1; 11/6/52, 59.1; 3/31/53, 55.4.

2N/8E-15K2--Reference point-hole in base plate, elevation 90 feet. On east side of Cox Road, 0.07 mile north of Linden Road. 11/28/47, 55.3; 3/2/48, 65.9; 4/7/48, 56.5; 5/6/48, 54.0; 11/15/48, 59.4; 12/29/48, 57.5; 2/3/49, 56.3; 3/29/49, 54.9; 11/15/49, 62.5.

2N/8E-16D1--Reference point-hole in base plate, elevation 80.9 feet. 0.13 mile south of Baker Lane, 0.26 mile west of Archerdale Road. 11/26/47, 48.9; 3/2/48, 59.3; 11/15/48, 52.9; 3/30/49, 49.2; 11/15/49, 57.2; 4/5/50, 51.7; 11/6/50, 57.7; 4/4/51, 51.6; 11/20/51, 57.0; 4/4/52, 51.5; 11/6/52, 56.9; 3/31/53, 53.8.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-16K1--Reference point-hole in pump base, elevation 82 feet. On east side of Archerdale Road, 0.49 mile north of Linden Road. 12/2/48, 55.0; 3/30/49, 51.9, 11/15/49, 59.7.

2N/8E-17B1--Reference point-bottom of pump base, elevation 77 feet. 0.06 mile south of Baker Lane, 0.5 mile east of Tully Road. 12/5/47, 49.2; 3/3/48, 58.9; 11/15/48, 53.0; 3/30/49, 49.8; 11/15/49, 56.7; 4/7/50, 52.5; 11/6/50, 58.2; 11/20/51, 57.4; 4/4/52, 52.3; 11/6/52, 56.9.

2N/8E-17E1--Reference point-groove in concrete base, elevation 75 feet. On west side of Tully Road, 0.36 mile south of Baker Lane. 12/10/47, 48.4; 3/9/48, 53.1; 11/15/48, 52.4; 3/30/49, 48.6; 11/15/49, 54.8.

2N/8E-18C1--Reference point-hole in side of casing, elevation 70.0 feet. Southwest corner of Gogna Road and Baker Lane. 3/23/48, 45.7; 5/3/48, 43.5; 6/2/48, 44.3; 7/2/48, 71.7; 8/3/48, 63.5; 9/2/48, 65.1; 9/30/48, 53.5; 11/3/48, 48.6; 11/16/48, 48.2; 3/30/49, 44.8; 5/3/49, 51.1; 6/1/49, 57.0; 7/1/49, 60.5; 8/1/49, 66.1; 9/2/49, 65.0; 10/3/49, 54.2; 11/14/49, 51.5; 4/5/50, 47.5; 11/6/50, 53.0; 4/4/51, 47.4; 11/20/51, 52.6; 4/4/52, 47.1; 11/6/52, 51.8; 3/31/53, 49.6.

2N/8E-18F1--Reference point-hole in pump base, elevation 70.2 feet. 0.3 mile south of Baker Lane, 0.45 mile east of Jack Tone Road. 12/20/47, 44.1; 3/9/48, 48.5; 3/24/48, 50.3; 11/15/48, 48.1; 11/14/49, 51.4.

2N/8E-18N1--Reference point-bottom of steel I beam under floor, elevation 69.2 feet. 0.02 mile east of Jack Tone Road, 0.19 mile north of Fairchild Lane. 12/5/47, 45.6; 3/9/48, 49.0.

2N/8E-19C3--Reference point-hole in pump base, elevation 68.4 feet. In north-west corner of Fanning and Gogna Roads. 12/10/47, 48.6; 3/9/48, 47.7; 11/15/48, 50.5; 3/29/49, 47.9; 11/16/49, 54.0; 4/5/50, 50.9; 11/6/50, 56.6; 4/3/51, 51.7; 11/20/51, 57.0; 4/3/52, 52.3; 11/6/52, 55.9; 3/31/53, 51.2.

2N/8E-19H1--Reference point-groove in concrete base, elevation 70.7 feet. 0.54 mile east of Gogna Road, 0.32 mile north of Linden Road. 12/10/47, 47.2; 11/15/48, 50.7; 3/30/49, 48.0; 11/16/49, 54.4.

2N/8E-19P2--Reference point-bottom of I beam, elevation 69.2 feet. Northwest corner of Gogna and Linden Roads. 12/10/47, 46.0; 3/9/48, 46.2; 4/7/48, 44.9; 6/13/48, 49.7; 7/15/48, 49.9; 11/15/48, 49.9; 1/6/49, 48.9; 2/10/49, 47.5; 3/29/49, 46.6; 5/5/49, 49.1; 11/16/49, 54.9; 4/4/50, 49.5; 11/6/50, 56.9; 4/3/51, 50.4; 11/20/51, 56.3; 4/3/52, 52.0; 11/6/52, 56.2; 3/31/53, 52.3.

2N/8E-20F1--Reference point-hole in pump base, elevation 74.7 feet. 1.05 mile east of Gogna Road, 0.2 mile north of Linden Road. 12/9/47, 56.7; 3/9/48, 50.8; 4/7/48, 47.0; 5/6/48, 46.3; 9/22/48, 57.8; 11/15/48, 53.3; 1/10/49, 49.7; 3/30/49, 48.2; 11/15/49, 55.2; 4/4/50, 52.6; 11/6/50, 57.3; 4/3/51, 51.5; 11/23/51, 56.9; 4/4/52, 51.5; 11/6/52, 56.8; 3/31/53, 53.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-21D2--Reference point-slot in concrete base, elevation 80 feet. On south side of Linden Road, 0.25 mile east of Murray Road. 12/9/47, 48.6; 3/2/48, 56.7; 4/7/48, 48.4; 5/6/48, 47.7; 9/22/48, 61.7; 11/15/48, 53.0; 1/10/49, 51.1; 3/30/49, 49.6; 11/16/49, 58.8.

2N/8E-21A1--Reference point-slot in concrete base, elevation 87 feet. On west side of Duncan Road, 0.21 mile south of Linden Road. 12/8/47, 53.0; 3/2/48, 60.2; 11/16/49, 59.6; 4/7/50, 54.7; 11/6/50, 60.7; 4/3/51, 57.1; 11/20/51, 60.2; 4/4/52, 54.5; 11/6/52, 60.6.

2N/8E-21R1--Reference point-hole in base of pump, elevation 80.8 feet. On west side of Duncan Road, 0.36 mile north of Tobacco Road. 12/9/47, 45.4; 3/2/48, 51.7; 11/12/48, 49.8; 3/29/49, 46.4; 11/16/49, 53.9; 4/4/50, 49.2; 11/6/50, 55.3; 4/3/51, 48.9; 11/20/51, 55.2; 4/4/52, 49.3; 11/6/52, 57.1; 3/31/53, 52.2.

2N/8E-22J1--Reference point-slot in concrete base, elevation 91 feet. 0.51 mile south of Flood Road, 0.42 mile west of Mormon Slough. 11/25/47, 52.2; 3/1/48, 61.6; 11/16/48, 55.8; 1/7/49, 55.0; 2/10/49, 53.4; 3/8/49, 53.2; 4/1/49, 52.4; 5/5/49, 58.7; 11/17/49, 60.2.

2N/8E-23A1--Reference point-top of casing, elevation 98 feet. On south side of Flood Road, 0.21 mile east of Mormon Slough. 11/25/47, 62.6; 3/18/48, 58.7; 4/5/48, 57.2; 5/4/48, 58.8; 11/16/48, 61.8; 3/9/49, 58.2; 4/4/49, 58.8; 11/18/49, 67.0.

2N/8E-24A1--Reference point-hole in base plate, elevation 106.1 feet. 0.26 mile east and 0.11 mile south of the northern intersection of Flood and Fine Roads. 11/24/47, 59.2; 3/1/48, 62.2; 11/17/48, 63.4; 3/9/49, 59.8; 4/4/49, 60.2; 11/18/49, 67.0; 4/7/50, 62.1; 11/3/50, 67.7; 4/2/51, 61.3; 11/20/51, 67.4; 4/4/52, 61.9; 11/6/52, 69.1.

2N/8E-24P1--Reference point-pipe in concrete base, elevation 127 feet. On west side of Fine Road, 0.32 mile south of Flood Road. 12/9/47, 78.5; 3/1/48, 82.8; 11/17/48, 83.7; 3/9/49, 79.7; 4/4/49, 82.4; 11/18/49, 86.7; 4/6/50, 83.8; 1/3/50, 88.3; 11/20/51, 88.5; 11/6/52, 88.8; 3/27/53, 85.6.

2N/8E-25A1--Reference point-hole in pump base, elevation 110 feet. 0.42 mile east of Fine Road, 0.61 mile south of Flood Road. 12/9/47, 61.5; 3/19/48, 62.2; 11/17/48, 66.0; 3/9/49, 62.9; 11/18/49, 69.8.

2N/8E-25P1--Reference point-hole in pump base, elevation 101.5 feet. In northwest corner of intersection of Fine and Milton Roads. 12/4/47, 52.1; 1/19/48, 52.9; 4/5/48, 52.1; 4/30/48, 52.0; 6/1/48, 52.5; 7/1/48, 71.8 (oper.); 7/2/48, 72.2 (oper.); 9/1/48, 61.7; 10/1/48, 58.8; 11/1/48, 71.0 (oper.); 1/22/48, 56.5; 12/1/48, 56.1; 1/8/49, 54.9; 3/10/49, 53.8; 5/2/49, 71.5 (oper.); 1/15/49, 60.9; 4/6/50, 57.0; 11/3/50, 63.1; 11/21/51, 63.6; 11/6/52, 67.6; 3/27/53, 61.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-28C1--Reference point-top of casing underneath pump base, elevation 78.1 feet. 0.49 mile east of Murray Road, 0.95 mile south of Linden Road. 12/9/47, 44.2; 3/4/48, 49.2; 11/15/48, 48.6; 3/30/49, 45.4; 11/16/49, 53.0; 4/7/50, 48.7; 11/6/50, 55.5; 4/3/51, 48.9; 4/4/52, 48.8; 11/6/52, 55.9.

2N/8E-28A1--Reference point-base of pump at hole in concrete, elevation 82.3 feet. 0.05 mile west of Duncan Road, 0.16 mile north of Tobacco Road. 5/3/48, 50.0; 6/2/48, 47.5; 7/1/48, 81.6 (oper.); 8/3/48, 85.0 (oper.); 9/2/48, 85.2 (oper.); 9/30/48, 44.9; 11/3/48, 52.0; 11/12/48, 51.8; 3/29/49, 48.2; 11/16/49, 55.2.

2N/8E-28A2--Reference point-hole in concrete base, elevation 81.2 feet. On west side of Duncan Road, 0.07 mile north of Tobacco Road. 12/9/47, 45.7; 3/4/48, 50.3; 3/24/48, 50.3; 5/3/48, 44.4; 6/2/48, 45.7; 7/1/48, 60.2; 8/3/48, 73.8 (oper.); 9/2/48, 72.4 (oper.); 9/30/48, 53.6; 11/3/48, 51.1; 11/12/48, 50.2; 3/29/49, 46.8; 11/16/49, 54.4.

2N/8E-28R3--Reference point-slot in concrete base, elevation 84.1 feet. Northwest corner of intersection of Milton and Duncan Roads. 12/9/47, 46.3; 3/3/48, 52.3; 11/22/48, 50.6; 3/10/49, 47.3; 4/5/49, 47.1; 11/16/49, 55.3; 4/4/50, 50.7; 11/6/50, 57.4; 4/2/51, 50.8; 11/21/51, 57.9; 4/4/52, 50.9; 11/7/52, 58.6.

2N/8E-29A1--Reference point-hole in pump base, elevation 74.7 feet. On west side of Murray Road, 0.9 mile south of Linden Road. 12/9/47, 42.6; 3/4/48, 46.2; 11/15/48, 47.1; 3/30/49, 43.9; 11/16/49, 51.3; 11/23/51, 53.4.

2N/8E-29G1--Reference point-pipe in concrete base, elevation 74.4 feet. 0.27 mile west of Murray Road, 1.50 mile south of Linden Road. 3/31/48, 43.3; 4/20/48, 43.3; 5/3/48, 42.5; 6/2/48, 43.0; 7/1/48, 52.0; 9/30/48, 50.1; 11/3/48, 49.6; 11/15/48, 48.0; 3/30/49, 44.9; 5/2/49, 48.0; 11/16/49, 52.2.

2N/8E-28I1--Reference point-hole in pump base, elevation 76.5 feet. 0.62 mile west of Duncan Road, 0.64 mile north of Milton Road. 12/9/47, 49.3; 3/4/48, 51.8; 11/22/48, 48.6; 3/10/49, 45.4; 4/5/49, 45.5; 11/16/49, 53.1.

2N/8E-29J1--Reference point-top of casing between pump base and concrete, elevation 74.3 feet. 0.88 mile north of Milton Road, 1.01 miles west of Duncan Road. 12/9/47, 42.1; 3/4/48, 50.4; 11/22/48, 46.5; 3/10/49, 42.1; 4/5/49, 43.4; 5/2/49, 47.7; 11/16/49, 50.6.

2N/8E-30H1--Reference point-hole in pump base, elevation 70.5 feet. 0.54 mile east of Gogna Road, 0.54 mile south of Linden Road. 12/12/47, 47.6; 3/3/48, 46.2; 11/15/48, 46.6; 3/30/49, 43.3; 11/16/49, 51.2; 4/7/50, 46.5; 11/6/50, 53.4; 4/3/51, 47.4; 11/27/51, 53.3; 4/4/52, 47.6; 11/6/52, 53.4; 3/31/53, 51.8.

2N/8E-31B1--Reference point-hole in pump base, elevation 64 feet. 0.55 mile east of Jack Tone Road, 0.49 mile north of Southern Pacific Railroad. 12/12/47, 39.4; 3/3/48, 40.2; 11/23/48, 41.7; 4/6/49, 38.5; 11/17/49, 46.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-31N1--Reference point-hole in pump base, elevation 63.7 feet. 0.06 mile east of Jack Tone Road, 0.23 mile north of Milton Road. 12/12/47, 36.1; 3/19/48, 35.9; 11/23/48, 40.7; 3/9/49, 38.4; 4/5/49, 37.3; 11/17/49, 45.5; 11/6/50, 48.8; 4/3/51, 41.3; 11/20/51, 46.4; 4/4/52, 41.7; 11/7/52, 48.7; 3/27/53, 44.4.

2N/8E-31R1--Reference point-hole in pump base, elevation 65.5 feet. In east corner of junction of Milton and Copperopolis Roads. 12/9/47, 35.2; 3/3/48, 34.7; 11/22/48, 39.4; 3/9/49, 36.9; 4/5/49, 36.2; 11/17/49, 43.9; 11/6/50, 47.7; 4/3/51, 38.6; 11/20/51, 48.7; 4/4/52, 39.9; 11/7/52, 50.6.

2N/8E-32L1--Reference point-hole in pump base, elevation 71.8 feet. 0.1 mile north of Milton Road. 0.86 mile east of Copperopolis Road. 12/9/47, 39.0; 3/4/48, 41.8; 11/23/48, 43.1; 3/10/49, 40.5; 4/5/49, 40.0; 4/17/49, 47.9; 4/4/50, 43.7; 11/16/50, 50.6; 4/3/51, 44.0; 11/21/51, 51.3; 4/4/52, 44.4; 11/7/52, 50.5.

2N/8E-33D1--Reference point-hole in pump base, elevation 77.1 feet. 0.79 mile west of Duncan Road, 0.24 mile north of Milton Road. 12/9/47, 42.1; 3/4/48, 46.3; 11/22/48, 46.1; 3/10/49, 45.6; 4/5/49, 45.5; 11/16/49, 51.3; 4/4/50, 46.6; 11/6/50, 53.2; 4/3/51, 46.7; 11/21/51, 54.2; 4/4/52, 46.5; 11/7/52, 54.2.

2N/8E-33F1--Reference point-slot in concrete base, elevation 77.6 feet. On south side of Milton Road, 0.61 mile west of Duncan Road via Milton Road. 12/9/47, 41.4; 3/4/48, 45.6; 11/22/48, 45.4; 3/10/49, 42.7; 4/5/49, 42.5; 11/16/49, 50.6.

2N/8E-33P1--Reference point-slot in concrete base, elevation 75.1 feet. 0.22 mile north of Copperopolis Road, 0.52 mile west of Duncan Road. 12/9/47, 43.2; 3/4/48, 44.0; 11/22/48, 44.6; 3/10/49, 41.9; 4/6/49, 41.2; 11/17/49, 49.7.

2N/8E-34A1--Reference point-hole in base of pump, elevation 87.5 feet. On south side of Milton Road, 0.9 mile east of Duncan Road. 12/9/47, 45.7; 3/3/48, 50.5; 11/22/48, 50.1; 3/10/49, 46.4; 4/5/49, 46.2; 11/16/49, 54.9.

2N/8E-34E1--Reference point-slot in concrete base, elevation 82.9 feet. On south side of Mormon Slough, 0.07 mile east of Duncan Road. 12/8/48, 48.4; 1/8/49, 47.2; 3/10/49, 44.7; 4/5/49, 44.4; 11/17/49, 53.1; 4/6/50, 47.5; 11/6/50, 55.6; 4/2/51, 45.2; 11/21/51, 54.7; 4/4/52, 50.3; 11/7/52, 55.9; 3/27/53, 51.1.

2N/8E-34P2--Reference point-base of pump, top of I beam, elevation 79 feet. On north side of Copperopolis Road, 0.42 mile east of Duncan Road. 12/8/48, 42.9; 3/10/49, 41.3; 4/6/49, 41.0; 11/17/49, casing sealed.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/8E-35C1--Reference point-hole in pump base, elevation 89.8 feet. On south side of Milton Road, 0.7 mile west of Deitrich Road. 12/9/47, 45.0; 4/5/48, 45.4; 5/4/48, 45.0; 11/22/48, 49.9; 1/11/49, 49.6; 2/10/49, 48.0; 3/10/49, 47.4; 4/5/49, 47.6; 5/5/49, 51.1; 11/15/49, 54.7; 4/7/50, 51.1; 6/3/50, 58.6; 7/5/50, 56.9; 8/3/50, 62.0; 9/7/50, 59.5; 10/10/50, 57.2; 11/6/50, 57.1; 4/2/51, 51.6; 11/21/51, 57.5; 4/4/52, 51.7; 11/6/52, 59.7; 3/27/53, 54.4.

2N/8E-35J1--Reference point-hole in pump base, elevation 86.8 feet. On south side of Southern Pacific Railroad, 0.28 mile west of Deitrich Road. 12/9/47, 39.2; 3/4/48, 41.6; 11/22/48, 42.5; 3/10/49, 40.3; 4/5/49, 41.2; 11/15/49, 47.4; 4/7/50, 43.9; 11/6/50, 49.7; 4/2/51, 47.3; 11/21/51, 51.1; 4/4/52, 46.2; 11/6/52, 58.7.

2N/8E-36I1--Reference point-top of casing, elevation 97.7 feet. In northwest corner of intersection of Fine Road and Southern Pacific Railroad, in Peters. 12/9/47, 45.4; 3/3/48, 46.6; 11/22/48, 49.1; 3/10/49, 45.7; 4/5/49, 47.6; 11/15/49, 53.9; 4/7/50, 62.2; 11/3/50, 56.9; 4/2/51, 52.7; 11/21/51, 56.2; 4/4/52, 53.7; 11/6/52, 59.8; 3/27/53, 55.1.

2N/9E-3A1--Reference point-hole in concrete base, elevation 150 feet. On north side of Bellota River Road, 0.92 mile west of Waverly Road. 11/19/48, 44.7; 12/29/48, 44.2; 3/31/49, 40.8; 11/15/49, 45.5; 3/30/50, 43.4; 11/7/50, 44.5; 4/4/51, 41.7; 11/23/51, 48.0; 4/7/52, 41.7; 11/5/52, 43.2; 3/27/53, 42.4.

2N/9E-4D2--Reference point-notch in casing under south side of pump base, elevation 138 feet. On north side of Calaveras River, 1.03 miles northeast of Linden Road-Calaveras River crossing. 11/19/48, 72.6; 12/29/48, 72.2; 3/31/49, 63.1; 11/14/49, 72.7; 3/30/50, 71.0; 11/7/50, 70.4; 4/4/51, 62.6; 11/23/51, 73.8.

2N/9E-4A1--Reference point-slot in concrete base, elevation 143.8 feet. On north side of Bellota River Road, 0.7 mile east of Gilmore Road. 11/19/48, 40.9; 12/29/48, 39.9; 3/31/49, 38.6; 11/15/49, 42.2.

2N/9E-4E3--Reference point-hole in pump base, elevation 132.8 feet. On west side of Gilmore Road, 0.2 mile south of Bellota River Road. 11/19/48, 68.8; 3/31/49, 65.9; 11/15/49, 70.5; 3/30/50, 67.4; 11/7/50, 67.7; 4/4/51, 63.9; 11/23/51, 67.1; 4/7/52, 60.4; 11/5/52, 64.2.

2N/9E-4H1--Reference point-hole in pump base, elevation 154 feet. 0.37 mile south of Bellota River Road, 0.7 mile east of Gilmore Road. 11/19/48, 55.4; 3/31/49, 54.9; 11/15/49, 57.1; 3/30/50, 56.1; 11/7/50, 56.7; 11/23/51, 56.5; 4/7/52, 54.3; 11/5/52, (oper.); 3/27/53, 54.9.

2N/9E-4N1--Reference point-hole in pump base, elevation 130.7 feet. On west side of Gilmore Road, 0.53 mile south of Bellota River Road. 11/19/48, 69.1; 3/31/49, 67.0; 11/15/49, 69.9.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/9E-5H1--Reference point-hole in pump base, elevation 132.7 feet. 0.67 mile east of Escalon-Bellota Road, on south side of Calaveras River. 11/13/29, 26.5; 10/23/30, 25.1; 12/18/31, 38.5; 11/7/32, 26.7; 12/23/33, 20.2; 11/19/34, 27.9; 11/9/36, 23.4; 11/8/37, 23.3; 1/16/39, 19.1; 1/22/41, 20.3; 11/19/47, 69.5; 3/22/48, 69.4; 4/30/48, 69.0; 6/1/48, 68.7; 7/1/48, 92.0 (oper.) 8/2/48, 73.9; 9/1/48, 81.4; 9/30/48, 74.9, 11/3/48, 73.2; 11/16/48, 72.9; 12/14/48, 71.4; 3/8/49, 70.7; 4/1/49, 66.5; 11/17/49, 73.3.

2N/9E-5L1--Reference point-top of concrete pump base, elevation 130.5 feet. On east side of Linden Road, 0.06 mile south of Calaveras River in Bellota. 11/24/47, 71.2; 3/16/48, 73.1; 11/16/48, 77.0; 3/8/49, 73.9; 4/1/49, 72.2; 11/17/49, 70.4; 3/30/50, 74.3; 11/3/50, 74.8; 4/2/51, 73.0; 11/6/52, 74.9; 3/27/53, 73.2.

2N/9E-5L2--Reference point-hole in pump base, elevation 130.1 feet. South side of Bellota River Road, 0.24 mile east of Escalon-Bellota Road. 11/24/47, 67.6; 3/1/48, 70.4; 11/16/48, 73.2; 3/8/49, 70.9; 4/4/49, 70.2; 11/17/49, 73.6.

2N/9E-5M1--Reference point-hole in pump base, elevation 127.0 feet. 0.1 mile south of Highway 8, west side of Escalon-Bellota Road. 12/8/47, 70.0; 3/1/48, 72.3; 4/7/48, 69.7; 5/4/48, 70.8; 9/20/48, 77.0; 11/16/48, 73.2; 1/11/49, 72.1; 2/3/49, 71.7; 2/10/49, 72.2; 3/8/49, 71.4; 4/4/49, 71.1; 5/2/49, 71.4; 5/5/49, 71.6; 6/1/49, 84.5 (oper.); 7/1/49, 73.0; 8/1/49, 75.1; 9/1/49, 88.8 (oper.); 10/3/49, 75.1; 11/17/49, 74.1; 3/30/50, 72.1; 11/3/50, 73.3; 4/2/51, 71.7; 11/20/51, 72.9; 11/6/52, 73.6; 3/27/53, 71.0.

2N/9E-6F1--Reference point-top of casing, elevation 130 feet. 0.28 mile north of Calaveras River, 0.94 mile west of Bellota. 11/24/47, 74.0; 3/18/48, 75.7; 11/16/48, 77.3; 3/8/49, 75.1; 4/1/49, 75.7; 11/17/49, 77.4.

2N/9E-6M2--Reference point-bottom of base plate under discharge pipe, elevation 120 feet. 1.34 miles west of Bellota on south side of Calaveras River. 11/28/47, 75.7; 11/16/48, 77.1; 3/8/49, 75.0; 4/1/49, 74.4; 11/17/49, 78.6; 11/3/50, 79.4; 4/2/51, 79.8; 11/20/51, 76.7; 4/4/52, 81.1; 11/6/52, 84.3; 3/20/53, 79.6; 10/27/53 well plugged, substitute Well No. 2N/9E-6F1.

2N/9E-7A1--Reference point-pipe in concrete base, elevation 121 feet. On north side of Linden Road, 0.63 mile southwest of Escalon-Bellota Road. 11/24/47, 71.2; 3/1/48, 71.7; 4/7/48, 69.3; 5/4/48, 70.9; 6/13/48, 68.5; 12/2/48, 73.1; 1/11/49, 71.6; 2/10/49, 71.3; 3/8/49, 70.8; 4/3/49, 67.8; 5/5/49, 71.4; 11/17/49, 73.9.

2N/9E-7F1--Reference point-hole in pump base, elevation 116 feet. On north side of Linden Road, 1.25 miles southwest of Escalon-Bellota Road. 12/4/47, 67.3; 3/18/48, 68.2; 11/16/48, 71.0; 3/8/49, 68.2; 4/1/49, 67.5; 11/17/49, 72.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

2N/9E-7G2--Reference point-hole in base plate, elevation 118 feet. 0.08 mile south of Mormon Slough, 0.76 mile west of Escalon-Bellota Road. 11/28/47, 67.5; 3/1/48, 68.6; 11/16/48, 70.7; 4/4/49, 69.6; 11/17/49, 72.4; 4/7/50, 69.5; 11/3/50, 73.7; 9/2/51, 72.1; 4/4/52, 68.6; 11/6/52, 71.0.

2N/9E-9D1--Reference point-hole in pump base, elevation 133.2 feet. On west side of Gilmore Road, 0.84 mile south of Bellota River Road. 11/19/48, 72.2; 3/31/49, 70.5; 11/15/49, 72.8; 3/30/50, 72.5; 11/7/50, 72.8; 4/4/51, 70.8; 11/23/51, 73.4; 4/7/52, 71.1; 11/5/52, 72.3; 3/27/53, 70.8.

2N/9E-17C1--Reference point-top of casing, elevation 188.2 feet. On west side of Escalon-Bellota Road, 1.56 miles south of Linden Road. 11/28/47, 98+; 3/9/48, 100+; 11/30/48, 133.8; 3/8/49, 129.1; 4/1/49, 128.4; 11/18/49, 136.3; 4/6/50, 134.6; 11/3/50, 136.9; 4/2/51, 134.2; 11/21/51, 137.1; 4/4/52, 136.8; 11/6/52, 137.8; 3/27/53, 135.6.

2N/9E-18Q1--Reference point-hole in pump base, elevation 110 feet. 0.24 mile north of Flood Road, 1.53 miles west of Escalon-Bellota Road. 12/9/47, 62.7; 3/18/48, 64.5; 11/30/48, 65.3; 3/8/49, 63.2; 4/4/49, 62.2; 11/18/49, 68.7; 4/7/50, 65.2; 11/3/50, 69.8; 4/2/51, 65.4; 11/29/51, 73.8; 4/4/52, 65.7; 11/6/52, 61.2; 3/27/53, 67.5.

2N/9E-19H1--Reference point-top of casing, elevation 113 feet. 0.13 mile north of Flood Road, 1.38 miles east of Fine Road. 12/9/47, 62.9; 3/1/48, 65.2; 11/17/48, 67.5; 3/8/49, 64.1; 4/1/49, 63.8; 11/18/49, 70.0.

2N/9E-36R1--Reference point-top of 2"x6" next to discharge pipe of windmill, elevation 158 feet. 1 mile east of junction of Waverly and Copperopolis Roads. 4/31/50, 73.7; 3/1/50, 73.7; 4/3/50, 73.7; 5/4/50, 74.8; 6/2/50, 75.5; 7/3/50, 75.5; 8/3/50, 75.8; 9/5/50, 75.9; 10/5/50, 75.9; 10/31/50, 76.4; 12/4/50, 75.4; 1/9/51, 75.4; 3/7/51, 75.4; 3/28/51, 75.7; 5/1/51, 76.6; 6/5/51, 75.9; 7/3/51, 76.3; 8/3/51, 78.1; 9/4/51, 77.5; 10/1/51, 78.8; 11/23/51, 76.4; 1/16/52, 75.9; 2/29/52, 73.8; 4/3/52, 76.9; 11/12/52, 79.2; 3/27/53, 79.1.

1N/6E-1J1*--Reference point-center of face of pneumatic gage, elevation 25.2 feet. South side of Fremont Street, 50 feet east of D Street. 11/1/46, 31; 3/1/47, 32; 11/1/47, 39; 1/48, 37; 2/48, 38; 11/1/48, 41; 4/28/49, 38; 10/31/49, 45; 4/50, 50 (oper.); 5/50, 41; 10/31/50, 50; 2/28/51, 41; 10/30/51, 51; 2/25/52, 41; 11/1/52, 54; 3/6/53, 45.

1N/6E-3C1*--Reference point-center of face of pneumatic gage, elevation 10.5 feet. Southwest corner of Bedford and North Edison Street. 1/48, 26; 2/48, 25; 11/1/48, 29; 4/28/49, 52 (oper.); 10/31/49, 32; 10/31/50, 32; 2/28/51, 23; 10/29/51, 34; 2/24/52, 24; 11/1/52, 33; 3/4/53, 32.

1N/6E-3J1*--Reference point-center of face of pneumatic gage, elevation 13.2 feet. 50 feet south of Poplar Street, 50 feet west of Monroe Street. 11/1/46, 44; 3/1/47, 42; 11/1/47, 45; 1/48, 43; 2/48, 43; 11/1/48, 45; 4/28/49, 45; 4/50, 51 (oper.); 5/50, 41; 10/31/50, 41; 2/28/51, 37; 10/21/51, 50; 2/29/52, 36; 11/1/52, 48; 3/4/53, 35.

*Well owned and measured by California Water Service Company.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1N/6E-4D1*--Reference point-center of face of pneumatic gage, elevation 5.7 feet. Southwest corner of Michigan and Marine Streets. 11/1/46, 25; 3/1/47, 16; 11/1/47, 33; 1/48, 19; 2/48, 19; 11/1/48, 28; 4/28/49, 30; 10/31/49, 28; 4/50, 67 (oper.); 5/50, 32; 10/31/50, 31; 2/28/51, 25; 10/30/51, 26; 2/25/52, 25; 11/1/52, 27; 3/6/53, 23.

1N/6E-4B1*--Reference point-center of pneumatic gage face, elevation 7.5 feet. South side of Michigan Street, 200 feet west of Pershing Avenue. 11/1/46, 25; 3/1/47, 16; 11/1/47, 26; 1/48, 19; 2/48, 19; 11/1/48, 28; 4/28/49, 30; 10/31/49, 29; 4/50, 49 (oper.); 5/50, 33; 10/31/50, 26; 2/28/51, 22; 10/30/51, 28; 2/25/52, 23; 11/1/52, 30; 3/5/53, 27.

1N/6E-5G3--Reference point-top of casing, elevation 1.7 feet. Southwest corner of Plymouth Road and Country Club Boulevard. 3/29/48, 7.2; 6/3/48, 8.2; 7/2/48, 10.7; 8/3/48, 13.0 (oper.) 9/3/48, 13.6; 10/1/48, 12.6; 11/3/48, 10.6; 11/30/48, 9.7; 3/10/49, 7.4; 4/6/49, 7.4; 11/10/49, 10.8; 4/6/50, 8.9; 11/6/50, 12.5; 11/19/51, well destroyed.

1N/6E-5M3--Reference point-top of casing, elevation -0.7 foot. North side of Country Club Boulevard, at intersection of Moreing Road. 12/16/47, 5.4; 3/11/48, 3.8; 12/1/48, 5.0; 3/10/49, 3.7; 4/6/49, 3.2; 11/10/49, 6.2; 4/6/50, 3.6; 11/6/50, 7.7; 4/6/51, 3.2.

1N/6E-12F1*--Reference point-center of face of pneumatic gage, elevation 20.9 feet. 200 feet east of Wilson Way, 50 feet north of Sonora Street. 11/1/46, 48; 3/1/47, 45; 11/1/47, 44; 1/48, 48; 2/48, 48; 11/1/48, 56; 4/50, 86 (oper.); 5/50, 55; 10/31/50, 58; 1/26/51, 55; 10/20/51, 59; 2/24/52, 51; 11/1/52, 63; 3/5/53, 48.

1N/6E-13J1*--Reference point-center of face of pneumatic gage, elevation 20.2 feet. East side of Scribner Street, 25 feet south of Julian Street. 11/1/47, 38; 1/48, 37; 2/48, 36; 11/1/48, 47; 4/28/49, 39; 10/31/49, 47; 4/50, 67 (oper.); 5/50, 43; 10/31/50, 50; 2/28/51, 38; 10/30/51, 49; 2/25/52, 40; 11/1/52, 52; 3/5/53, 44.

1N/6E-14C1*--Reference point-center of face of pneumatic gage, elevation 12.6 feet. Southeast corner of West Jackson and South Center Streets. 11/1/46, 31; 3/1/47, 33; 11/1/47, 36; 1/48, 38; 2/48, 31; 4/28/49, 36; 10/31/49, 40; 5/50, 39; 10/31/50, 44; 2/28/51, 42; 10/29/51, 53; 2/24/52, 47; 11/1/52, 54; 3/4/53, 50.

1N/6E-16H1--Reference point-between pump base and concrete pier, elevation 4.4 feet. 0.23 mile west of Fresno Street on north side of Charter Way. 12/16/47, 18.3; 3/11/48, 14.5; 4/7/48, 17.2; 5/3/48, 20.6; 6/2/48, 18.4; 7/2/48, 20.2; 3/2/48, 21.5; 9/7/48, 38.2 (oper.); 11/8/48, 22.0; 12/2/48, 21.3; 3/10/49, 18.6; 4/6/49, 19.0; 9/1/49, 23.3; 10/4/49, 29.9; 11/17/49, 23.5; 4/6/50, 20.4; 11/3/50, 29.5; 4/2/51, 19.2; 11/23/51, 22.8; 4/4/52, 17.6; 11/10/52, 25.0; 3/30/53, 20.7.

*Well owned and measured by California Water Service Company.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

N/6E-16H3--Reference point-pipe in concrete base, elevation 2.5 feet. On south side of Charter Way 0.12 mile west of Fresno Street. 12/17/47, 18.5; 3/11/48, 6.0; 12/2/48, 21.5.

N/6E-23R1--Reference point-top of 1" x 6" over casing, elevation 12.3 feet, west side of Highway 50, 0.6 mile north of Southern Pacific Railroad crossing. 8/3/49, 1.5; 11/1/49, 22.6; 11/28/49, 22.6; 2/1/50, 21.2; 3/1/50, 19.3; 4/6/50, 19.0; 7/3/50, 19.8; 6/1/50, 21.5; 7/3/50, 22.7; 8/1/50, 24.7; 9/1/50, 24.8; 10/6/50, 6.5; 11/10/50, 24.0; 12/4/50, 21.6; 1/9/51, 17.6; 3/6/51, 16.1; 3/30/51, 15.7; 4/1/51, 16.9; 6/4/51, 19.2; 7/5/51, 20.0; 8/1/51, 22.3; 9/4/51, 22.8; 10/2/51, 3.4; 11/14/51, 23.2; 1/17/52, 20.4; 2/27/52, 16.6; 3/31/52, 15.0; 11/5/52, 23.6; 4/1/53, 20.1.

N/6E-25M1--Reference point-slot in pump base, elevation 17.0 feet. West side of McKinley Ave., 0.42 mile north of McKinley Ave. and Sperry Road Junction. 11/1/49, 2.6; 2/1/50, 22.1 (oper.); 3/1/50, 18.3; 4/6/50, 18.4; 5/3/50, 18.9; 6/1/50, 1.3; 7/3/50, 21.8; 8/1/50, 35.4 (oper.); 9/1/50, 31.7 (oper.); 10/6/50, 29.0 (oper.); 1/14/50, 21.8; 12/4/50, 20.0; 1/9/51, 28.7 (oper.); 3/6/51, 14.9 (oper.); 5/1/51, 3.7 (oper.); 6/4/51, 17.8; 7/5/51, 19.4; 8/1/51, 33.8 (oper.); 3/31/52, 15.0.

N/6E-35A1--Reference point--top of 2" x 4". West side of pump in 7.0 feet pit, elevation 7.2 feet. 0.12 mile east of French Camp Road, 0.25 mile west of U. S. Highway 50. 11/1/49, 10.9; 11/28/49, 8.9; 2/1/50, 8.3; 3/1/50, 7.7; 4/6/50, 7.4; 7/3/50, 7.6; 6/1/50, 9.3; 7/3/50, 10.6; 8/1/50, 12.1; 8/31/50, 13.7; 10/6/50, 2.6; 11/10/50, 9.1; 12/4/50, 7.7; 1/9/51, 4.3; 3/6/51, 3.5; 3/30/51, 4.8; 5/1/51, 3.7; 4/4/51, 5.4; 7/5/51, 5.5; 8/1/51, 14.3 (oper.); 10/2/51, 8.3; 11/13/51, 7.7; 1/17/52, 5.4; 2/27/52, 3.7; 3/31/52, 3.7; 11/5/52, 8.4; 4/1/53, 6.5.

N/6E-36R2--Reference point-top of casing of domestic well under windmill, elevation 11 feet. 50 feet west and 500 feet north of southwest corner of southwest quarter of Section 36. 11/10/50, 14.5; 3/27/51, 9.4; 11/13/51, 13.7; 3/31/52, 7.3; 1/5/52, 11.6; 4/1/53, 4.4.

N/7E-1F3--Reference point-top of casing of bottom of 16 foot pit, elevation 55.4 feet. 0.06 mile west of Best Road, 0.24 mile south of Milton Road. 12/12/47, 1.3; 3/10/48, 32.4; 11/23/48, 35.1; 3/9/49, 34.3; 4/5/49, 34.1; 11/17/49, 42.2.

N/7E-1M1--Reference point-slot in concrete, elevation 54.8 feet. 0.15 mile west of Best Road, 0.4 mile south of Milton Road. 12/13/47, 30.6; 3/11/48, 29.4; 1/23/48, 34.7; 3/9/49, 31.6; 4/5/49, 31.8; 11/17/49, 39.3; 4/6/50, 34.7; 11/6/50, 2.1; 4/3/51, 32.4; 11/23/51, 43.8; 4/4/52, 31.2; 11/7/52, 44.7; 3/27/53, 35.6.

N/7E-1R1--Reference point-top of casing, elevation 60.0 feet. 0.23 mile west of Jack Tone Road, 0.37 mile south of Mormon Slough. 12/12/47, 31.3; 3/3/48, 31.4; 1/10/48, 32.1; 11/22/48, 35.6; 3/9/49, 32.7; 4/6/49, 31.5; 11/17/49, 40.5; 4/4/50, 5.8; 11/6/50, 43.7; 4/3/51, 34.1; 11/21/51, 44.7; 4/4/52, 35.1; 11/7/52, 43.5.

N/7E-2L2--Reference point-pump base hole, elevation 50.3 feet. 0.6 mile east of intersection of Alpine and Copperopolis Roads, 0.15 mile south of Copperopolis Road. 12/13/47, 31.3; 3/10/48, 33.6; 11/24/48, 34.3; 1/8/49, 33.5; 2/10/49, 32.8; 4/10/49, 31.5; 4/5/49, 30.5; 5/5/49, 32.4; 11/16/49, 38.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

N/7E-3D1--Reference point-hole in pump base, elevation 39.5 feet. 0.81 mile west of Alpine Road, 0.44 mile north of Copperopolis Road. 12/12/47, 38.8; 11/24/48, 36.7; 3/31/49, 32.3; 11/16/49, 41.3.

N/7E-3H1--Reference point-hole in base of pump, elevation 44.4 feet. East corner of intersection of Alpine Road and Copperopolis Road. 12/13/47, 31.0; 3/9/48, 29.8; 11/24/48, 33.5; 3/10/49, 31.7; 4/5/49, 30.6; 11/16/49, 37.5; 4/6/50, 34.7; 1/3/50, 41.5; 4/3/51, 33.2; 11/21/51, 42.7; 4/3/52, 33.4.

N/7E-3P2--Reference point-hole in pump base, elevation 41 feet. 0.35 mile east of Gillis Road, 0.56 mile north of Farmington Road. 12/12/47, 31.8; 3/8/48, 30.1; 1/24/48, 34.5; 3/31/49, 30.6; 11/15/49, 38.0; 4/4/50, 35.5.

N/7E-4P3--Reference point-top of beer can set in base of concrete, elevation 34 feet. 0.4 mile east of Walker Lane, 0.14 mile south of Copperopolis Road. 2/15/47, 34.7; 3/9/48, 35.4; 11/24/48, 37.1; 3/10/49, 34.3; 4/6/49, 33.1; 11/7/49, 2.8; 4/6/50, 37.5; 11/3/50, 46.0; 4/3/51, 32.6; 11/21/51, 44.8; 4/3/52, 32.4; 1/6/52, 43.4; 3/20/53, 40.3.

N/7E-4R1--Reference point-slot in concrete base, elevation 38 feet. On west side of Gillis Road, 0.08 mile south of Copperopolis Road. 12/12/47, 34.3; 3/8/48, 31.7; 1/24/48, 46.4; 1/8/49, 33.6; 2/10/49, 33.5; 3/10/49, 3.0; 4/6/49, 28.0; 5/5/49, 3.4; 11/15/49, 41.2; 11/21/51, 43.7; 4/3/52, 26.2; 11/6/52, 41.3.

N/7E-5R3--Reference point-top of casing under pump, elevation 32 feet. 0.15 mile north of East Main Street, 0.04 mile west of Walker Lane. 12/16/47, 36.6; 3/9/48, 7.0; 11/24/48, 39.3; 3/10/49, 36.4; 4/6/49, 35.2; 11/17/49, 44.9.

N/7E-7E1--Reference point-center of pneumatic gage, elevation 26.6 feet. Southwest corner of Scott and McDonnell Streets. 11/1/46, 37; 3/1/47, 36; 11/1/47, 42; 4/8/47, 37; 2/48/47, 36; 11/1/48, 51; 4/28/49, 44; 10/31/49, 55; 4/50/49, 72 (oper.); 5/50/49, 52; 10/31/50, 48; 2/28/51, 40; 10/20/51, 59; 2/29/52, 38; 1/1/52, 48; 3/3/53, 42.

N/7E-8F3--Reference point-top of casing, elevation 31.6 feet. 0.12 mile south of East Main Street, 0.34 mile east of Highway 99. 12/16/47, 38.6; 3/9/48, 37.9; 1/24/48, 41.2; 3/10/49, 39.7; 4/6/49, 36.9; 11/17/49, 45.5; 4/3/50, 40.4; 11/3/50, 8.8; 4/3/51, 38.9; 11/21/51, 48.2; 4/3/52, 40.0; 11/6/52, 49.8; 3/30/53, 45.8.

N/7E-8R1--Reference point-slot in concrete base, elevation 32.0 feet. On north side of Farmington Road, 0.45 mile west of Walker Lane. 12/15/47, 32.4; 3/8/48, 3.1; 11/24/48, 35.1; 3/31/49, 33.1; 11/15/49, 38.8; 4/4/50, 34.9; 11/3/50, 41.6; 4/3/51, 34.2; 11/21/51, 41.7; 4/4/52, 34.0; 11/6/52, 42.9; 3/30/53, 37.9.

N/7E-9L1--Reference point-hole in pump base, elevation 37.0 feet. 0.03 mile north of Farmington Road, 0.03 mile east of Walker Road. 12/15/47, 32.7; 3/8/48, 34.4; 7/7/49, 33.8; 11/17/49, 40.6.

Well owned and measured by California Water Service Company.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

N/7E-9K1--Reference point-top of concrete pipe casing, elevation 35.0 feet. On north side of Farmington Road, 0.35 mile east of Walker Lane. 12/15/47, 32.7; 1/8/48, 34.4; 5/7/48, 29.5; 6/1/48, 32.0; 7/2/48, 30.9; 9/1/48, 32.0; 9/30/48, 9.7; 11/3/48, 31.7; 11/24/48, 31.9.

N/7E-9Q1--Reference point-top of casing, elevation 36 feet. 0.21 mile south of Farmington Road, 0.43 mile east of Walker Lane. 12/15/47, 36.9; 3/9/48, 36.5; 1/2/48, 62.3 (oper.); 3/2/48, 63.4 (oper.); 9/1/48, 64.8 (oper.); 11/24/48, 28.4; 1/31/49, 26.6.

N/7E-10E2--Reference point-between pump base and concrete, elevation 41.2 feet. On north side of Farmington Road, 0.15 mile east of Gillis Road. 12/12/47, 30.5; 1/5/48, 29.5; 4/5/48, 29.0; 5/4/48, 28.4; 9/20/48, 35.0; 11/24/48, 32.6; 1/8/49, 2.2; 2/10/49, 31.8; 3/10/49, 31.4; 4/6/49, 31.0.

N/7E-11E1--Reference point-top of casing, elevation 49.2 feet. On south side of Farmington Road, 0.1 mile northwest of intersection of Duck Creek and Farmington Road. 12/12/47, 28.6; 3/5/48, 30.3; 4/5/48, 27.7; 5/4/48, 27.5; 9/20/48, 36.8; 1/24/48, 31.5; 1/8/49, 31.2; 3/10/49, 30.5; 4/6/49, 29.9; 11/15/49, 35.7; 4/4/50, 2.9; 11/3/50, 39.2; 4/3/51, 32.2; 11/21/51, 40.0; 4/4/52, 32.6; 11/6/52, 36.4.

N/7E-11G1--Reference point-slot in concrete base, elevation 51.7 feet. On north side of Duck Creek, 0.49 mile east of intersection of Duck Creek and Farmington Road. 12/12/47, 33.4; 3/5/48, 28.9; 11/24/48, 32.3; 3/10/49, 31.1; 4/6/49, 30.5; 1/15/49, 36.5; 4/4/50, 33.0; 11/3/50, 40.0; 4/3/51, 32.2; 11/21/51, 40.1; 4/4/52, 2.2; 11/6/52, 38.0; 3/30/53, 41.3.

N/7E-11J1--Reference point-pipe in concrete base, elevation 54.2 feet. On west side of Kaiser Road. 0.1 mile south of Farmington Road. 3/5/48, 29.7; 3/10/49, 1.0; 4/5/49, 30.5.

N/7E-12L1--Reference point-hole in pump base, elevation 55.2 feet. On northeast side of Farmington Road, 0.57 mile west of Jack Tone Road. 12/12/47, 26.4.

N/7E-12Q1--Reference point-top of casing, elevation 55.6 feet. On northeast side of Farmington Road, 0.57 mile west of Jack Tone Road. 11/30/48, 31.4 (oper.); 1/9/49, 29.6 (oper.); 4/6/49, 29.9; 11/17/49, 36.3; 4/4/50, 33.2; 11/6/50, 40.6; 1/3/51, 33.6; 11/21/51, 39.8; 4/8/52, 35.3; 11/7/52, 41.1; 3/27/53, 38.8.

N/7E-12R1--Reference point-hole in base of pump, elevation 59.6 feet. On west side of Jack Tone Road, 0.14 mile north of Farmington Road. 3/5/48, 27.8; 11/22/48, 0.3; 3/9/49, 30.1; 4/6/49, 29.1; 11/17/49, 35.0; 4/4/50, 32.9; 11/6/50, 39.9; 1/3/51, 34.4; 4/21/51, 41.4; 11/7/52, 42.4.

N/7E-13E1--Reference point-top of casing, elevation 51.7 feet. 0.4 mile south of Farmington Road, 0.09 mile east of Kaiser Road. 7/25/49, 30.1; 11/29/49, 30.4; 1/6/50, 28.9; 11/9/50, 33.5; 3/27/51, 29.6; 11/14/51, 34.2; 4/9/52, 29.0; 11/6/52, 4.7; 3/31/53, 33.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

1N/7E-15E1--Reference point-hole in pump base, elevation 36 feet. 0.28 mile northwest of east end Carpenter Road, 0.8 mile south of junction of Giles Road, and State Highway 4. 7/22/49, 51.1; 11/29/49, 29.9; 3/30/50, 27.3; 11/9/50, 32.7; 3/27/51, 28.1; 11/14/51, 31.9; 4/1/52, 26.6; 11/6/52, 34.3.

1N/7E-15R1--Reference point-hole in pump base, elevation 44 feet. 1.15 miles north of intersection of Austin and Mariposa Roads. 11/28/49, 29.7; 3/30/50, 27.5; 11/9/50, 32.8; 3/27/51, 28.5; 11/14/51, 31.7; 4/8/52, 26.0; 11/6/52, 36.5.

1N/7E-16A1--Reference point-top of concrete pit, elevation 37 feet. 0.56 mile south of Farmington Road, 0.29 mile west of Gillis Road. 12/15/47, 23.9; 3/9/48, 25.1; 7/2/48, 63.9 (oper.); 9/30/48, 33.0; 11/24/48, 29.2; 3/31/49, 27.8; 11/15/49, 32.5.

1N/7E-18C5--Reference point-hole in pump base, elevation 27.3 feet. On west side of Pock Lane, 0.1 mile south of U.S. Highway 99. 12/16/47, 36.6; 3/9/48, 35.5; 11/24/48, 39.3; 3/31/49, 36.4; 11/15/49, 42.6; 4/6/50, 38.4; 11/3/50, 45.5; 4/3/51, 38.1; 11/21/51, 44.6; 4/4/52, 37.1; 11/10/52, 46.0; 3/27/53, 41.2.

1N/7E-18R2--Reference point-top of casing, elevation 25.6 feet. East side of Pock Lane, 0.62 mile south of 8th Avenue. 12/16/47, 26.4; 3/9/48, 27.7; 11/30/48, 29.2; 4/6/49, 26.4; 11/15/49, 32.0; 4/6/50, 27.0; 11/3/50, 33.4; 4/4/51, 24.3; 11/21/51, 33.5; 4/4/52, 24.3; 11/10/52, 37.7.

1N/7E-19D1--Reference point-top of casing under pump, elevation 22 feet. In front of house at 2847 south B Street, Stockton. 12/16/47, 26.3; 3/11/48, 21.2; 11/30/48, 20.8; 4/6/49, 18.8; 11/18/49, casing sealed.

1N/7E-19P1--Reference point-hole in pump base, elevation 20.2 feet. 0.55 mile east of Sharps Lane, 0.55 mile south of Carpenter Road. 7/22/49, 25.4; 11/28/49, 26.0; 3/30/50, 20.9; 11/10/50, 27.1; 3/30/51, 17.7; 11/14/51, 27.0; 3/31/52, 17.0.

1N/7E-19R1--Reference point-hole in pump base, elevation 24.7 feet. 0.45 mile south of Carpenter Road, 0.65 mile west of U.S. Highway 99. 11/28/49, 26.0; 4/6/50, 21.7; 11/9/50, 27.2; 3/27/51, 18.1; 11/13/51, 27.5; 3/31/52, 17.1; 11/5/52, 31.8; 4/1/53, 28.4.

1N/7E-20E1--Reference point--top of flange on discharge pipe at top of pit, elevation 26.4 feet. 0.48 mile west of U. S. Highway 99, south side of Carpenter Road. 7/22/49, 10.1; 11/28/49, 29.0; 4/6/50, 24.7; 11/9/50, 30.4; 3/27/51, 21.1; 11/13/51, 29.8; 3/31/52, 22.0; 11/5/52, 35.0.

1N/7E-20Q2--Reference point-hole in pump base, elevation 30.1 feet. 1.15 miles south of Duck Creek along U. S. Highway 99, east side of highway. 7/22/49, 27.1; 11/28/49, 25.9; 2/1/50, 24.3; 3/1/50, 22.1; 4/6/50, 22.0; 5/3/50, 23.4; 6/1/50, 35.8 (oper.); 7/3/50, 28.0; 8/1/50, 28.3; 8/31/50, 28.6; 10/6/50, 26.7; 11/9/50, 26.9; 12/4/50, 25.7; 1/9/51, 20.8; 3/6/51, 18.3; 3/30/51, 19.3; 5/1/51, 21.3; 6/4/51, 27.4; 7/5/51, 27.6; 8/1/51, 29.6; 9/5/51, 30.8; 10/2/51, 29.1; 11/15/51, 27.9; 2/27/52, 21.3; 4/1/52, 19.7; 11/5/52, 33.4; 4/1/53, 28.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

N/7E-21C1--Reference point-hole in pump base, elevation 31.9 feet. 0.78 mile east of U. S. Highway 99, 0.2 mile south of Mariposa Road. 7/22/49, 28.1; 11/29/49, 26.5; 3/30/50, 22.9; 11/9/50, 28.1; 3/27/51, 21.3; 11/14/51, 29.1.

N/7E-21B1--Reference point-top pump base, elevation 27.8 feet. 0.4 mile east of Craig Ave., 200 feet north of Thompson Road. 7/25/49, 21.2; 11/28/49, 20.1; 4/6/50, 16.9; 11/9/50, 22.0; 3/27/51, 16.1; 11/14/51, 21.8; 3/31/52, 16.5; 11/6/52, 16.3; 4/1/53, 25.7.

N/7E-21J1--Reference point-hole in casing, elevation 35.7 feet. 0.95 mile north of Weber Road, 0.75 mile west of Atchison, Topeka and Santa Fe Railroad tracks, 0.2 miles east of U.S. Highway 99. 11/28/49, 26.6; 3/30/50, 24.1; 11/9/50, 26.7; 3/27/51, 20.3; 11/14/51, 26.2; 3/31/52, 21.0; 11/6/52, 29.2.

N/7E-22H1--Reference point- hole in pump base, elevation 43.2 feet. 1 mile west of Kaiser Road, 0.55 mile north of Mariposa Road. 7/27/49, 28.7; 11/28/49, 26.6; 3/30/50, 23.9; 11/9/50, 28.7; 3/27/51, 24.5; 11/14/51, 31.8; 3/31/52, 25.7; 4/1/53, 33.5.

N/7E-23H1--Reference point-top of casing in 18.7 pit, elevation 32.7 feet. 0.87 mile north of Mariposa Road; west side of Kaiser Road. 7/25/49, 8.1; 11/29/49, 9.3; 4/6/50, 7.6; 11/9/50, 12.4; 3/27/51, 4.5; 11/14/51, 13.1.

N/7E-24J1--Reference point-hole in pump base, elevation 58.2 feet. 0.1 mile east of Jack Tone Road, 1 mile north of Mariposa Road. 7/25/49, 32.7; 11/29/49, 28.8; 2/1/50, 28.1; 3/1/50, 27.6; 3/31/50, 27.4; 5/3/50, 28.4; 8/31/50, 33.4; 1/8/50, 32.2; 12/4/50, 31.4; 1/9/51, 30.4; 3/6/51, 29.3; 3/29/51, 28.9; 5/1/51, 29.6; 6/4/51, 31.1; 7/5/51, 32.9; 10/2/51, 35.7; 11/16/51, 34.2; 2/27/52, 31.7; 4/7/52, 30.6; 11/6/52, 43.6; 3/24/53, 33.8.

N/7E-26C1--Reference point-hole in pump base, elevation 47.7 feet. 0.3 mile east of Austin Road, south side of Mariposa Road. 7/25/49, 27.3; 11/29/49, 25.5; 3/31/50, 23.7; 11/9/50, 28.0; 3/27/51, 23.8; 11/14/51, 29.9; 4/2/52, 24.8; 11/6/52, 33.0.

N/7E-26A1--Reference point- top of wood casing of hand pump 10' south of irrigation well, elevation 52.0 feet. 0.07 mile south of Mariposa Road, west side of Kaiser Road. 7/25/49, 17.1; 11/29/49, 25.5; 3/31/50, 24.0; 11/9/50, 28.3; 3/27/51, 25.0; 11/14/51, 31.4. 4/2/52, 26.4; 11/6/52, 34.0; 3/31/53, 30.0.

N/7E-27H1--Reference point-top of casing, elevation 42.8 feet. 350 feet west of Austin Road, north side of Weber Road. 11/28/49, 23.0; 4/3/50, 19.9; 11/9/50, 14.3; 3/30/51, 19.0; 11/14/51, 25.7; 3/31/52, 20.0; 11/5/52, 27.1; 3/31/53, 24.4.

N/7E-28A2--Reference point-hole in casing, elevation 37.3 feet. 1 mile west of Austin Road, 0.26 mile north of Weber Road. 7/22/49, 63.4 (oper.); 11/28/49, 23.0; 1/10/50, 25.4; 3/30/51, 18.2; 11/14/51, 25.1; 3/31/53, 24.8.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

- /7E-28M2--Reference point-hole in pump base, elevation 30.8 feet. 0.1 mile south Weber Road, 0.1 mile east of U. S. Highway 99. 7/22/49, 22.1; 11/28/49, 21.7; 1/50, 20.8; 3/1/50, 19.0; 4/6/50, 19.1; 5/3/50, 18.9; 6/1/50, 21.2; 7/3/50, 22.4; 1/50, 23.4; 8/31/50, 24.0; 10/6/50, 22.3; 11/9/50, 22.7; 1/9/51, 18.1; 3/6/51, .1; 3/30/51, 15.5; 5/1/51, 16.4; 6/4/51, 19.3; 7/5/51, 20.8; 8/1/51, 35.5 (oper.); 5/51, 24.6; 10/2/51, 22.9; 3/31/52, 17.0; 11/5/52, 27.7; 4/1/53, 24.8.
- /7E-33A1--Reference point-top of casing, elevation 36.0 feet. 0.52 mile south Weber Road, west side of Castle Road. 7/22/49, 21.8; 11/28/49, 19.8; 4/3/50, 16.7; 10/50, 21.6; 3/30/51, 14.3; 11/14/51, 22.9; 3/31/52, 15.3; 11/5/52, 23.5; 3/31/53, .4.
- /7E-33Q1--Reference point-hole in base of pump, elevation 31 feet. 0.4 mile west Castle Road, 1.4 miles south of Weber Road. 11/28/49, 13.7; 3/30/50, 10.0; 10/50, 14.4; 11/14/51, 13.2; 3/31/52, 6.5.
- /7E-35H1--Reference point-pipe in concrete base, elevation 49 feet. 1.3 miles south of Mariposa Road, west side of Kaiser Road. 7/25/49, 36.1; 12/5/49, 19.4; 31/50, 17.5; 11/9/50, 21.8; 3/27/51, 16.3; 11/14/51, 23.5; 4/2/52, 16.2; 11/6/52, .1.
- /7E-35P1--Reference point-top of 2" x 4" pit casing south side, elevation 47.6 feet. 0.45 mile east of Austin Road, 1.25 miles south of Weber Road. 12/1/49, 17.8 30/50, 15.2; 11/9/50, 19.8; 3/27/51, 13.4; 11/15/51, 21.3; 4/2/52, 13.0.
- /7E-36H1--Reference point-top of casing, elevation 54.9 feet. 0.93 mile south of Mariposa Road, 0.2 mile west of Jack Tone Road. 7/26/49, 39.6; 11/30/49, 21.1; 1/50, 19.8; 3/1/50, 19.4; 4/6/50, 19.2; 5/3/50, 19.6; 6/1/50, 21.4; 7/3/50, 22.0; 1/50, 26.4; 8/31/50, 27.5; 10/6/50, 24.2; 11/9/50, 24.3; 12/4/50, 22.9; 1/9/51, .8; 3/6/51, 17.6; 3/30/51, 18.5; 5/1/51, 17.9; 6/4/51, 20.8; 7/5/51, 23.1; 12/51, 25.7; 11/16/51, 28.2.
- /8E-5B1--Reference point-hole in pump base, elevation 69 feet. 0.11 mile south Copperopolis Road, 0.32 mile west of Mormon Slough. 12/9/47, 36.3; 4/5/48, 34.5; 4/48, 33.8; 11/22/48, 39.9; 1/8/49, 38.4; 2/10/49, 37.9; 3/10/49, 35.7; 4/6/49, .5; 5/5/49, 39.7; 11/17/49, 44.6.
- /8E-6E1--Reference point-hole in casing, elevation 61.8 feet. 0.1 mile east of Jack Tone Road, 0.37 mile south of Milton Road. 12/12/47, 38.6; 3/19/48, 31.0; 12/22/48, 36.8; 3/9/49, 35.0; 4/5/49, 34.5; 11/17/49, 41.6; 4/4/50, 36.7; 11/6/50, .1; 4/3/51, 35.5; 11/23/51, 45.6; 4/4/52, 36.01, 11/7/52, 48.1.
- /8E-6J1--Reference point-pipe in concrete base, elevation 64 feet. 0.7 mile south Copperopolis Road, 0.7 mile east of Jack Tone Road. 12/12/47, 32.9; 3/3/48, .2; 11/22/48, 36.6; 4/6/49, 33.9; 11/17/49, 41.5.
- /8E-7F1--Reference point-pipe in concrete base, elevation 62 feet. 0.45 mile east of Jack Tone Road, 0.52 mile north of Farmington Road. 12/12/47, 32.0; 4/14/48, .3; 5/4/48, 32.8; 3/9/49, 30.9; 4/6/49, 33.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

N/8E-10B1--Reference point-pump base hole, remove 1-inch pipe plug in base of pump, elevation 80 feet. 1 mile south of Copperopolis Road, on east side of Drais Road. 12/4/47, 37.6; 3/3/48, 34.8; 4/5/48, 34.7; 5/4/48, 34.3; 9/20/48, 39.0; 11/23/48, 38.5; 1/8/49, 38.0; 3/10/49, 37.4; 4/6/49, 37.1; 11/17/49, 45.6; 4/6/50, 41.3; 11/6/50, 47.3; 4/3/51, 44.2; 4/4/52, 45.3; 11/7/52, 52.6; 3/27/53, 7.3.

N/8E-11G1--Reference point-hole in pump base, elevation 86 feet. 1.52 miles south of Copperopolis Road, 0.15 mile west of Deitrich Road. 11/15/49, 42.9; 4/7/50, 40.6; 11/6/50, 47.1; 4/2/51, 41.6.

N/8E-13J1--Reference point-hole in pump base, elevation 95 feet. 0.13 mile south of intersection of Duck Creek and Hewitt Road, 264 feet west of Hewitt Road. 11/15/49, 42.0; 4/6/50, 39.1; 11/3/50, 47.3; 4/2/51, 43.5; 11/21/51, 48.5; 4/4/52, 3.4; 11/6/52, 54.9; 3/27/53, 47.3.

N/8E-13P1--Reference point-top of casing in pit, elevation 80.9 feet. 0.46 mile east of Van Allen Road, north side of State Highway 4. 7/29/49, 32.7; 12/6/49, 38.6; 2/1/50, 27.9; 3/1/50, 27.4; 4/5/50, 27.4; 5/4/50, 33.9 (oper.); 6/2/50, 32.2; 7/3/50, 33.2; 8/3/50, 34.7; 8/31/50, 35.2; 10/5/50, 33.4; 11/2/50, 32.5; 2/6/50, 31.6; 1/9/51, 30.6; 3/6/51, 29.3; 3/28/51, 29.4; 5/4/51, 31.6; 6/5/51, 35.9; 7/31/51, 35.9; 8/2/51, 39.8; 11/19/51, 27.1; 4/9/52, 29.3; 11/12/52, 31.0; 4/25/53, 33.5.

N/8E-14E1--Reference point-hole in pump base, elevation 85 feet. 0.27 mile north of Farmington Road, 0.38 mile east of Drais Road. 11/10/49, 41.6; 4/7/50, 40.2; 11/3/50, 45.6; 11/23/51, 47.4; 4/4/52, N.R.; 11/1/52, 57.8; 3/27/53, 47.8.

N/8E-17D1--Reference point-top of casing, elevation 68.7 feet. 1.2 miles east of Jack Tone Road on south side of State Highway 4. 12/4/46, 27.0; 3/5/47, 26.0; 4/29/47, 30.8; 12/12/47, 33.4; 3/5/48, 30.3; 4/5/48, 28.8; 5/4/48, 28.6; 9/20/48, 27.5; 11/23/48, 32.1; 1/11/49, 31.8; 2/10/49, 31.7; 3/10/49, 31.5; 4/6/49, 31.2; 4/3/49, 38.9; 11/17/49, 37.4; 2/1/50, 36.2; 3/1/50, 35.5; 3/31/50, 35.1; 5/4/50, 35.9; 6/2/50, 41.7; 7/3/50, 58.2 (oper.); 8/2/50, 57.2 (oper.); 8/31/50, 59.1 (oper.); 10/6/50, 44.2; 11/8/50, 41.3; 12/4/50, 40.4; 1/10/51, 39.0; 3/6/51, 37.5; 3/28/51, 37.0; 5/1/51, 37.9; 6/4/51, 40.9; 7/5/51, 46.9; 8/1/51, 45.1; 9/4/51, 46.4; 10/2/51, 45.5; 11/16/51, 43.7; 1/17/52, 41.7; 2/26/52, 40.4; 4/9/52, 39.0; 11/12/52, 45.7; 3/24/53, 42.4.

N/8E-17J1--Reference point-top of 14.5 foot pit curb, elevation 71.9 feet. 2 miles east of Jack Tone Road, 0.73 mile south of State Highway 4. 7/25/49, 32.0; 11/30/49, 34.8; 3/31/50, 33.4; 11/8/50, 39.0; 3/28/51, 35.4; 11/21/51, 41.1; 4/7/52, 37.6; 11/12/52, 43.4; 3/30/53, 40.6.

N/8E-18M1--Reference point-base of pump, elevation 59.4 feet. 0.55 mile south of State Highway 4, east side of Jack Tone Road. 7/25/49, 33.6; 11/29/49, 32.8; 1/1/50, 32.2; 3/1/50, 31.5; 3/31/50, 31.3; 5/3/50, 31.4; 6/1/50, 34.7; 7/3/50, 36.5; 8/1/50, 37.2; 8/31/50, 38.8; 10/6/50, 37.6; 11/8/50, 36.8; 12/4/50, 36.3; 1/9/51, 35.1; 3/6/51, 33.1; 3/29/51, 32.9; 5/1/51, 34.2; 6/4/51, 35.9; 7/5/51, 38.3; 8/1/51, 39.7; 9/5/51, 40.8; 10/1/51, 40.4; 11/16/51, 35.6; 1/17/52, 32.1; 4/27/52, 28.8; 4/7/52, 23.7; 11/6/52, 40.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

N/8E-19B1--Reference point-hole in pump base, elevation 63.2 feet. 0.6 mile east of Jack Tone Road, 1 mile south of U. S. Highway 4. 11/29/49, 31.6; 3/31/50, 30.1; 1/8/50, 35.1; 3/29/51, 31.8.

N/8E-22J1--Reference point-hole in base of pump, elevation 85.9 feet. West side Carrollton Road, 1 mile south of intersection Carrollton Road and State Highway 4. 11/30/49, 41.1; 3/31/50, 37.9; 3/28/51, 39.9; 11/12/52, 50.9; 3/30/53, 46.3.

N/8E-23J1--Reference point-top of casing, elevation 89.1 feet. 1 mile south of junction State Highway 4 and Van Allen Road, 0.15 mile west of Van Allen Road. 2/6/49, 40.8; 4/5/50, 37.8; 11/6/50, 44.3; 3/28/51, 39.0; 5/4/51, 43.9; 6/4/51, 41.6 (oper.); 7/6/51, 78.7 (oper.); 4/7/52, 41.4; 11/7/52, 51.7; 3/24/53, 45.5.

N/8E-24J2--Reference point-pipe in base of pump, elevation 95.2 feet. 0.7 mile south of State Highway 4 and Hewitt Road junction, 0.85 mile west of Stanley Road. 12/6/49, 43.6; 4/5/50, 39.2; 11/6/50, 45.4; 3/28/51, 40.6; 1/19/51, 47.3; 4/9/52, 41.3; 11/12/52, 52.7.

N/8E-25G1--Reference point-top of casing, elevation 93.2 feet. 1.2 miles north of Gawne Road, 0.82 mile west of Stanley Road, west side Mobley Ave. 7/27/49, 49.0; 2/6/49, 41.9; 4/5/50, 37.4; 11/2/50, 46.4; 3/27/51, 38.1; 11/20/51, 47.7; 4/9/52, 50.7; 11/12/52, 52.8; 3/25/53, 44.2.

N/8E-26C1--Reference point-top of casing, elevation 84.4 feet. 0.55 mile west of Van Allen Road, south side of Littlejohn Creek. 7/29/49, 41.4; 12/6/49, 38.2; 1/5/50, 35.5; 11/6/50, 41.8; 3/27/51, 36.2; 11/19/51, 43.6; 4/7/52, 38.0.

N/8E-26A2--Reference point-top of casing, elevation 88.7 feet. 250 feet northwest of Oakwood Road and Van Allen Road junction. 12/6/49, 40.3; 2/1/50, 38.2; 1/1/50, 37.0; 4/5/50, 36.7; 5/4/50, 37.9; 6/2/50, 43.6; 7/3/50, 46.2; 8/2/50, 43.6; 8/31/50, 49.3; 10/5/50, 46.3; 11/6/50, 43.9; 12/6/50, 41.5; 1/9/51, 39.9; 3/28/51, 37.2; 5/4/51, 44.6; 6/4/51, 47.3; 7/6/51, 50.9; 8/2/51, 52.7; 9/6/51, 44.1; 10/1/51, 50.1; 11/19/51, 44.8; 1/16/52, 42.5; 2/27/52, 40.3; 4/7/52, 38.6; 11/7/52, 50.1; 3/24/53, 43.9.

N/8E-26L2--Reference point-hole in pump base, elevation 83.0 feet. North side of Oakwood Road, 0.44 mile northeast of junction of Oakwood and Morrison Roads. 2/6/49, 36.8; 4/5/50, 33.7; 11/6/50, 40.3; 3/27/51, 58.7 (oper.); 11/19/51, 41.0;

N/8E-26R1--Reference point-hole in pump base, elevation 86.2 feet. West side of Van Allen Road, 0.65 mile north of junction of Gawne and Van Allen Roads. 12/6/49, 37.3; 4/5/50, 33.3; 11/6/50, 41.0; 3/27/51, 34.1; 11/19/51, 41.8; 4/9/52, 35.8; 11/7/52, 46.6.

N/8E-27A1--Reference point-hole in pump base, elevation 83.3 feet. West side Carrollton Road, 0.6 mile north of intersection of Carrollton and Oakwood Roads. 11/30/49, 38.1; 3/31/50, 35.0; 11/6/50, 41.4; 3/27/51, 32.1; 11/19/51, 43.6; 11/7/52, 38.1; 11/7/52, 47.2; 3/24/53, 42.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

1N/8E-27R2--Reference point-hole in casing, elevation 78.8 feet. 0.57 mile north of Gawne Road, north side of Oakwood Road. 7/26/49, 46.1; (oper.); 11/30/49, 34.0; 4/5/50, 31.7; 11/6/50, 37.1; 3/27/51, 31.7; 11/19/51, 39.1; 4/7/52, 33.7; 11/7/52, 44.1; 3/24/53, 40.4.

1N/8E-28H1--Reference point-top of concrete casing under 1" x 2" boards, elevation 75 feet. 0.4 mile east of north end of Sola Road, 0.9 mile north of north end of Stow Road. 12/5/49, 31.8; 3/31/50, 29.5; 11/6/50, 34.8; 3/27/51, 31.9; 11/19/51, 36.2; 4/7/52, 33.2.

1N/8E-29H1--Reference point-pipe in base, elevation 68.2 feet. 0.85 mile north of Mariposa Road, west side of Sola Road. 7/26/49, 62.7 (oper.); 12/5/49, 29.0; 3/31/50, 26.8; 11/6/50, 32.1; 3/27/51, 27.6; 11/19/51, 33.9; 4/7/52, 29.7; 11/7/52, 36.4; 3/24/53, 33.6.

1N/8E-30A1--Reference point-pipe in base, elevation 66.5 feet. 1 mile east of Jack Tone Road, 0.9 mile north of Mariposa Road. 7/27/49, 57.2 (oper.); 11/29/49, 31.3; 3/31/50, 30.9; 11/8/50, 34.0; 3/27/51, 31.3; 11/19/51, 36.3; 4/9/52, 33.1; 11/7/52, 38.9; 3/24/53, 36.5.

1N/8E-30K1--Reference point-top of casing in 19.5' pit, elevation 42.4 feet, 0.75 mile east of Jack Tone Road, 0.65 mile north of Mariposa Road. 11/29/49, 6.3; 3/31/50, 5.2; 11/8/50, 9.6; 3/27/51, 5.8; 11/19/51, 11.9; 4/9/52, 8.1.

1N/8E-32D1--Reference point-hole in pump base, elevation 63.0 feet. 1.02 miles east of Jack Tone Road, south side of Mariposa Road. 7/26/49, 60.4 (oper.); 11/29/49, 25.4; 3/31/50, 23.6; 11/8/50, 28.1; 3/27/51, 24.2; 11/19/51, 30.2; 4/7/52, 23.5; 11/13/52, 31.2.

1N/8E-32G1--Reference point-top of casing, elevation 65.7 feet. 1.02 miles south of Mariposa Road, 0.17 mile west of intersection of Mariposa and Gawne Roads. 7/26/49, 41.4 (oper.); 12/5/49, 25.9; 4/6/50, 23.5; 11/6/50, 29.0; 3/27/51, 24.5; 11/19/51, 31.2; 4/7/52, 26.0; 3/24/53, 30.1.

1N/8E-33H1--Reference point-slot in casing below pump base, elevation 73.1 feet. 0.85 mile east of intersection of Mariposa and Gawne Roads, north side of Gawne Roads. 7/26/49, 39.4; 11/30/49, 30.6; 4/5/50, 27.2; 11/6/50, 33.4; 3/27/51, 27.9; 11/19/51, 36.1; 4/7/52, 30.5; 11/7/52, 38.0; 3/24/53, 33.6.

1N/8E-33P1--Reference point--top of casing. elevation 69.1 feet. South side of Mariposa Road. 0.5 mile east of Murphy Road, 12/5/49, 25.9; 4/6/50, 23.2; 11/6/50, 28.5; 3/29/51, 23.8; 11/19/51, 31.2; 4/9/52, 26.0; 11/10/52, 33.3; 3/26/53, 29.8.

1N/8E-34J1--Reference point-hole in pump base, elevation 79.1 feet. 0.3 mile east of Nelson Road, south side of Gawne Road. 7/26/49, 53.4 (oper.); 12/5/49, 34.4; 11/6/50, 38.4; 3/27/51, 31.3; 11/7/52, 43.0; 3/24/53, 37.1.

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DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to Water in feet measured from reference point)

1/8E-35H2--Reference point--crack between concrete base and wooden base, elevation 34.4 feet. North side of Gawne Road, 1/8 mile west of Van Allen Road. 8/3/49, 34.6; 12/6/49, 34.4; 2/1/50, 33.0; 3/1/50, 31.0; 4/5/50, 30.6; 5/4/50, 34.7; 6/2/50, 46.7; 7/3/50, 50.1; 8/2/50, 55.8 (oper.); 8/31/50, 54.4; 10/5/50, 45.3; 11/6/50, 38.9; 12/6/50, 35.0; 1/9/51, 33.3; 3/6/51, 31.2; 3/28/51, 32.0; 5/4/51, 31.8; 6/4/51, 47.9 (oper.); 7/6/51, 50.5 (oper.); 8/2/51, 53.3; 9/6/51, 54.1; 10/3/51, 55.1; 11/19/51, 40.9; 1/16/52, 36.8; 2/27/52, 34.8; 4/9/52, 34.5; 11/7/52, 34.1; 3/25/53, 38.4.

1/8E-35L1--Reference point--top of casing in pit, elevation 72.2 feet. 0.55 mile east of Van Allen Road, 0.06 mile south of Gawne Road. 12/6/49, 25.2; 4/5/50, 24.9; 11/6/50, 28.7; 3/27/51, 21.4; 11/19/51, 31.1.

1/8E-36H1--Reference point--slot in pump base, east side, elevation 90.7 feet. 0.5 mile east of Mobley Road, 0.2 mile north of Gawne Road. 7/27/49, 60.3 (oper.); 11/6/49, 36.5; 4/5/50, 32.3; 11/2/50, 40.6; 3/28/51, 33.7; 5/4/51, 56.4; 6/6/51, 53.2 (oper.); 7/6/51, 63.7 (oper.); 4/8/52, 32.5; 11/13/52, 46.9; 3/25/53, 42.2.

1/8E-36R1--Reference point--top of casing, elevation 91.9 feet. 1 mile east of Van Allen Road, 0.5 mile south of Gawne Road. 12/6/49, 37.6; 4/5/50, 33.7; 11/6/50, 41.7; 3/28/51, 38.5; 11/21/51, 42.6; 4/8/52, 37.5; 11/13/52, 48.5; 3/25/53, 40.8.

1/9E-2R1--Reference point--top of casing, elevation 140.8 feet. About 300 feet west of Waverly Road, 2.2 miles north of State Highway 4. 8/3/49, 55.5; 11/7/49, 51.4; 12/9/49, 56.9; 1/31/50, 57.1; 1/31/50, 57.5; 3/1/50, 57.5; 4/3/50, 57.5; 5/4/50, 57.7; 6/2/50, 57.8; 7/3/50, 58.1; 8/3/50, 58.3; 9/5/50, 58.7; 10/5/50, 58.8; 10/31/50, 59.1; 12/4/50, 59.3; 1/9/51, 59.2; 3/7/51, 58.7; 3/28/51, 59.5; 5/2/51, 59.6; 6/5/51, 59.4; 7/3/51, 59.7; 8/3/51, 60.0; 9/4/51, 59.8; 10/1/51, 59.2; 11/26/51, 62.4; 2/29/52, 60.1; 4/3/52, 60.3; 11/12/52, 64.7; 3/25/53, 64.0.

1/9E-8H1--Reference point--hole in pump base, elevation 148.5 feet. 1.2 miles south of Copperopolis Road, 0.08 mile west of Escalon-Bellota Road. 11/7/49, 86.4; 10/31/50, 86.5; 11/21/51, 90.6.

1/9E-13D1--Reference point--hole in pump base, elevation 143.0 feet. 0.25 mile east of intersection of Funck Road and State Highway 4, 200 feet south of State Highway 4. 11/7/49, 51.3; 12/8/49, 51.4; 1/31/50, 51.5; 3/1/50, 51.3; 4/3/50, 51.3; 5/4/50, 52.2; 6/2/50, 52.2; 7/3/50, 68.1 (oper.); 8/3/50, 53.6; 9/5/50, 53.3; 10/5/50, 68.0 (oper.); 10/31/50, 53.6; 12/4/50, 53.5; 1/9/51, 53.5; 3/7/51, 53.7; 3/28/51, 53.3; 5/2/51, 56.3; 6/5/51, 54.2; 7/3/51, 71.9 (oper.); 8/2/51, 54.9; 9/4/51, 55.0; 10/1/51, 54.3; 11/26/51, 54.8; 1/16/52, 53.8; 2/29/52, 49.3; 4/3/52, 48.9; 11/12/52, 58.8; 3/25/53, 58.8.

1/9E-14J1--Reference point--top of casing, elevation 143.0 feet. 0.6 mile south of Funck Road and State Highway 4 intersection, 0.1 mile west of State Highway 4. 11/7/49, 53.9; 12/8/49, 53.6; 4/3/50, 53.3; 10/31/50, 56.5; 3/28/51, 57.0; 11/26/51, 53.3; 4/3/52, 56.8; 11/12/52, 62.5.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

N/9E-15E1--Reference point-slot in pump base, elevation 120.9 feet. 0.35 mile east of Buckman Road, 0.06 mile west of Funck Road. 11/7/49, 43.5; 12/8/49, 43.8; 4/4/50, 41.8; 10/31/50, 46.1; 3/28/51, 44.1; 11/26/51, 49.7; 4/3/52, 46.3; 11/12/52, 52.1; 3/25/53, 53.4.

N/9E-15R1--Reference point-top of concrete in 27.7 foot pit, elevation 91.7 feet. 0.55 mile east of Buckman Road and State Highway 4 intersection, north side of State Highway 4. 12/9/49, 14.2; 4/4/50, 11.9; 10/31/50, 16.5; 3/28/51, 13.9; 11/26/51, 19.9; 4/3/52, 16.1.

N/9E-17A1--Reference point-top of concrete floor, 0.4 feet higher than top of casing, elevation 110.2 feet. 1 mile north of State Highway 4, west side of Escalon-Bellota Road. 7/27/49, 49.3; 11/7/49, 46.7; 12/8/49, 44.0; 1/31/50, 42.6; 3/1/50, 41.8; 4/3/50, 41.5; 5/4/50, 43.9; 6/2/50, 54.5; 7/3/50, 50.4; 8/3/50, 53.2; 8/31/50, 52.8; 10/5/50, 50.9; 10/31/50, 48.7; 12/4/50, 46.7; 1/9/51, 45.3; 3/8/51, 43.9; 3/28/51, 44.7; 5/2/51, 48.0; 6/5/51, 52.9; 7/3/51, 46.9; 8/2/51, 55.8; 9/4/51, 55.7; 10/1/51, 55.8; 11/21/51, 50.8; 1/16/52, 48.1; 2/27/52, 46.9; 3/21/52, 46.7; 3/25/52, 46.3; 4/1/52, 46.3; 11/12/52, 56.3; 3/25/53, 50.4.

N/9E-17A1--Reference point-top of casing, elevation 102 feet. 3 miles south of San Julien Road, 0.97 mile west of Escalon-Bellota Road. 11/15/49, 43.4; 4/6/50, 48.6; 11/3/50, 48.8; 4/2/51, 42.6; 11/21/51, Dropped; 11/6/52, 56.6; 3/27/53, 47.6.

N/9E-17R1--Reference point-top of casing, elevation 106.5 feet. 1.4 miles west of Escalon-Bellota Road, 0.6 mile north of State Highway 4. 7/27/49, 42.4; 11/7/49, 44.2; 12/6/49, 41.9; 4/5/50, 38.1; 10/31/50, 43.0; 3/28/51, 42.9; 11/21/51, 47.1; 4/9/52, 42.4; 11/12/52, 54.6; 3/25/53, 48.1.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

/9E-18P1--Reference point-top of casing, elevation 99.4 feet. 100 feet west of intersection of Mobley and Farmington Roads. 8/3/49, 53.6; 12/6/49, 42.5; 4/5/50, 41.8; 11/2/50, 46.8; 3/28/51, 42.5; 11/19/51, 48.8; 4/9/52, 45.2; 11/12/52, 56.8; 2/25/53, 47.4.

/9E-18Q1--Reference point-hole in pump base, elevation 101.3 feet. North side Farmington Road, 1.4 miles west of Escalon-Bellota Road. 7/28/49, 63.8 (oper.); 12/6/49, 43.6; 4/5/50, 40.5; 11/2/50, 47.6; 3/28/51, 43.6; 11/21/51, 49.0; 4/9/52, 52.2.

/9E-19K2--Reference point-hole in pump base, elevation 99.8 feet. West side of Stanley Road, 0.65 mile south of State Highway 4. 12/6/49, 42.6; 4/5/50, 39.2; 11/2/50, 46.9; 3/27/51, 41.1; 11/20/51, 48.6; 4/9/52, 42.7; 11/12/52, 54.7; 3/25/53, 51.1.

/9E-20J1--Reference point-hole in pump base, elevation 107.9 feet. West side of Escalon Road, 0.7 mile south of Southern Pacific Railroad crossing, 1.9 miles north of Gawne Road. 12/9/49, 41.4; 1/31/50, 39.5; 3/1/50, 38.5; 4/4/50, 38.0; 5/4/50, 38.5; 6/2/50, 48.3; 7/3/50, 59.0 (oper.); 8/3/50, 62.3 (oper.); 8/31/50, 52.4; 11/5/50, 58.9; 11/1/50, 46.5; 12/6/50, 43.7; 1/9/51, 42.1; 3/8/51, 40.7; 3/28/51, 41.3; 5/4/51, 45.7; 6/5/51, 51.7; 7/3/51, 55.4; 8/2/51, 64.3 (oper.); 9/4/51, 56.0; 11/21/51, 48.8; 2/27/52, 44.8; 3/21/52, 42.9; 3/24/52, 42.9; 4/2/52, 42.9; 11/13/52, 46.6.

/9E-22G1--Reference point-slot in wooden base, elevation 119.3 feet. About 200 feet north of Sonora Road, 0.6 mile southeast of State Highway 4. 11/7/49, 36.0; 12/9/49, 39.6; 4/5/50, 37.9; 11/1/50, 38.0; 3/28/51, 38.0; 11/26/51, 37.6; 4/1/52, 37.0; 11/6/52, 36.0; 3/25/53, 37.0.

/9E-23B1--Reference point-hole in pump base, elevation 155.0 feet. South side of State Highway 4, 1.5 miles east of Buckman Road. 11/7/49, 68.3; 12/8/49, 67.9; 1/31/50, 67.6; 3/1/50, 67.2; 4/3/50, 67.1; 5/4/50, 68.2; 6/2/50, 69.0; 7/3/50, 79.0 (oper.); 8/3/50, 70.4; 9/5/50, 80.0 (oper.); 10/5/50, 70.9; 10/31/50, 70.3; 12/4/50, 68.8; 1/9/51, 69.3; 3/7/51, 68.8; 5/2/51, 69.4; 6/5/51, 70.4; 7/3/51, 80.5 (oper.); 8/3/51, 81.1 (oper.); 9/4/51, 71.5; 10/1/51, 71.9; 11/26/51, 72.1; 1/16/52, 70.9; 2/29/52, 70.5; 3/21/52, 71.1; 3/25/52, 70.3; 4/3/52, 70.1; 11/12/52, 75.0.

/9E-23Q2--Reference point-top of casing, elevation 127.8 feet. 0.35 mile northwest of Henry Road, 0.1 mile north of Sonora Road. 12/8/49, 41.4; 4/5/50, 40.8; 11/1/50, 44.7; 3/28/51, 43.5; 11/26/51, 45.6.

/9E-26J1--Reference point-Slot in concrete base, elevation 130.1 feet. West side of Henry Road, 0.4 mile south of Sonora Road. 12/9/49, 42.0; 1/3/50, 41.4; 3/1/50, 41.6; 4/5/50, 40.8; 5/4/50, 42.2; 8/3/50, 40.6; 9/1/50, 47.7; 10/5/50, 48.0 (oper.); 11/1/50, 45.5; 12/4/50, 44.4; 1/10/51, 43.3; 3/8/51, 42.4; 3/28/51, 42.3; 5/2/51, 41.8; 6/5/51, 48.9; 8/3/51, 50.3; 9/4/51, 47.1; 10/1/51, 47.3; 2/6/52, 38.2; 2/26/52, 37.9; 3/21/52, 43.7; 3/25/52, 43.2; 4/1/52, 43.3; 11/6/52, 50.2; 3/25/53, 47.2.

/9E-28Q1--Reference point-edge of concrete block curb, elevation 113 feet. 0.6 mile east of Escalon-Bellota Road, 1.3 miles north of Carter Road. 12/9/49, 43.1; 1/4/50, 39.7; 11/1/50, 48.9; 4/1/51, 43.3; 11/20/51, 51.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1/9E-29A1--Reference point-bottom pump base, elevation 106.5 feet. 1.3 miles south of Farmington Road, 0.1 mile west of Escalon-Bellota Road. 7/27/49, 60.5 (oper.); 12/9/49, 41.8; 4/4/50, 36.7; 11/1/50, 45.6; 3/28/51, 39.9; 11/21/51, 43.8; 4/2/52, 41.8; 11/13/52, 53.8.

1/9E-29L1--Reference point-pipe in base, elevation 101 feet. 0.65 mile west of Escalon-Bellota Road, 1 mile north of Gawne Road. 12/9/49, 39.0; 4/4/50, 35.0; 11/2/50, 44.1; 3/29/51, 37.4; 11/21/51, 45.9; 4/2/52, 39.7.

1/9E-30C3--Reference point-hole in pump base, elevation 95.6 feet. 0.3 mile west of Stanley Road, 0.05 mile west of Mobley Road, 1 mile south of State Highway 4. 12/6/49, 42.6; 4/5/50, 38.1; 11/2/50, 44.9; 3/27/51, 38.0; 11/20/51, 47.6.

1/9E-30B1--Reference point-hole in pump base, elevation 97.9 feet. East side of Stanley Road, 1.1 mile south of Farmington Road. 7/9/49, 50.5; 12/6/49, 40.4; 4/5/50, 36.7; 11/2/50, 45.1; 3/27/51, 38.3; 11/20/51, 46.9; 4/9/52, 40.2; 11/12/52, 53.0.

1/9E-31H1--Reference point-slot in pump base, elevation 104.3 feet. 1 mile west of Escalon-Bellota Road, 0.2 mile north of Gawne Road. 7/27/49, 61.7 (oper.); 12/6/49, 41.4; 4/5/50, 37.9; 11/2/50, 46.0; 3/28/51, 39.0; 11/20/51, 47.5; 4/8/52, 41.2; 11/13/52, 54.5; 3/25/53, 46.0.

1/9E-32J1--Reference point-hole in pump base, elevation 107.5 feet. West side of Escalon-Bellota Road, 0.1 mile south of Gawne Road. 7/27/49, 59.9 (oper.); 12/9/49, 41.3; 1/3/50, 38.2; 3/1/50, 37.2; 4/4/50, 36.9; 5/4/50, 54.3 (oper.); 6/2/50, 58.3 (oper.); 7/3/50, 60.6 (oper.); 8/3/50, 61.1 (oper.); 8/31/50, 61.7 (oper.); 10/6/50, 60.6 (oper.); 11/1/50, 44.7; 12/6/50, 42.2; 1/10/51, 40.5; 3/8/51, 38.8; 3/28/51, 42.1; 5/4/51, 41.3; 6/5/51, 59.6 (oper.); 7/3/51, 64.8 (oper.); 8/2/51, 68.2 (oper.); 11/20/51, 46.4; 1/16/52, 43.3; 2/27/52, 41.9; 4/2/52, 42.0; 11/13/52, 52.1; 3/25/53, 44.1.

1/9E-33P1--Reference point-base of pump, elevation 118.3 feet. North side of Carter Road, 0.48 mile east of Escalon-Bellota Road. 7/28/49, 62.8 (oper.); 12/8/49, 49.2; 4/4/50, 45.6; 11/1/50, 51.2; 3/29/51, 48.5; 11/26/51, 54.1; 4/2/52, 41.0; 11/6/52, 58.4; 3/25/53, 54.6.

1/9E-34C1--Reference point-top of casing, elevation 133.3 feet. 1 mile north of Carter Road, 1.5 miles west of Escalon-Bellota Road. 12/9/49, 56.8; 4/4/50, 54.1; 1/1/50, 61.2; 3/29/51, 57.1; 11/26/51, 62.1; 4/2/52, 59.8 (oper.); 11/6/52, 66.5; 3/25/53, 62.5.

1/9E-34N1--Reference point-slot in concrete base, elevation 124.8 feet. 0.25 mile north of Carter Road, 1.2 mile east of Escalon-Bellota Road. 12/8/49, 49.2; 4/4/50, 47.7; 11/1/50, 53.2; 11/26/51, 54.6; 4/2/52, 50.7; 11/6/52, 59.8.

1/9E-35N1--Reference point-top of casing, elevation 151.2 feet. North side of Carter Road, 1 mile west of Henry Road. 8/3/49, 66.1; 12/8/49, 69.3; 4/4/50, 66.5; 1/1/50, 72.5; 3/29/51, 69.0; 11/23/51, 75.2; 4/2/52, 71.4; 3/25/53, 78.1.

1/10E-10N1--Reference point-top of 4"x6" pipe supports, elevation 210 feet. North side of Copperopolis Road, 1.5 miles west of 28 Mile Road. 4/3/52, 97.1; 11/12/52, 98.0; 3/27/53, 97.8.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1N/10E-22H1--Reference point-hole in pump base, elevation 182 feet. 0.4 mile west of 28 Mile Road, 1.4 miles south of Copperopolis Road. 6/30/50, 79.8 (oper.); 8/3/50, 85.4 (oper.); 9/5/50, 55.9; 10/31/50, 51.5; 12/4/50, 51.1; 1/9/51, 50.8; 3/7/51, 51.1; 3/28/51, 50.4; 5/2/51, 52.1; 6/5/51, 53.6; 7/3/51, 87.1 (oper.); 8/3/51, 86.2 (oper.); 9/4/51, 53.4; 11/26/51, 52.6; 2/29/52, 51.2; 4/3/52, 51.5; 11/12/52, 53.5; 3/27/53, 53.0.

1N/10E-32F1--Reference point-top of 4" x 4" curb, elevation 161 feet. North side of Sonora Road, 3 miles west of Town of Eugene. 1/31/50, 52.0; 3/1/50, 51.8; 4/5/50, 52.1; 5/4/50, 52.3; 6/2/50, 52.2; 6/30/50, 53.2; 8/3/50, 52.6; 9/5/50, 52.9; 10/5/50, 53.1; 10/31/50, 53.5; 12/4/50, 53.7; 1/9/51, 53.8; 3/7/51, 54.2; 3/28/51, 53.4; 5/2/51, 53.9; 6/5/51, 54.1; 7/3/51, 54.4; 8/3/51, 54.5; 9/4/51, 54.4; 10/1/51, 55.0; 11/26/51, 55.4; 1/16/52, 54.7; 2/29/52, 55.9; 4/3/52, 54.8; 11/12/52, 56.7; 3/27/53, 59.0.

1N/10E-35R1--Reference point-bottom of pump base, elevation 175 feet. Southeast corner of 28 Mile Road and Sonora Road, 0.5 mile southeast of Town of Eugene. 4/3/52, 39.7; 11/12/52, 42.0; 3/27/53, 41.2.

1N/10E-36R1--Reference point-slot in base, elevation 178 feet. 0.75 mile north of Sonora Road, 1.7 miles east of 28 mile road. 4/3/52, 28.7; 11/12/52, 32.4; 3/27/53, 29.5.

1S/7E-1J1--Reference point-top of casing, elevation 53.4 feet. West side of Jack Tone Road, 1 mile north of Wildwood Road. 12/5/49, 16.4; 2/1/50, 15.5; 3/1/50, 14.7; 4/6/50, 14.4; 5/3/50, 14.8; 6/1/50, 16.5; 7/3/50, 17.3; 8/1/50, 18.4; 8/31/50, 19.5; 10/6/50, 19.7; 11/9/50, 19.0; 12/4/50, 18.2; 1/9/51, 16.2; 3/6/51, 14.3; 3/30/51, 14.2; 5/1/51, 14.8; 6/4/51, 15.6; 7/5/51, 17.8; 8/1/51, 18.7; 9/5/51, 19.5; 10/2/51, 20.2; 11/15/51, 20.6; 1/17/52, 18.1; 2/27/52, 15.2; 4/4/52, 13.2; 11/6/52, 20.7; 3/30/53, 19.8.

1S/7E-2E1--Reference point-edge of concrete base, elevation 44.4 feet. 0.2 mile east of Austin Road, 1.9 miles south of Weber Road. 12/1/49, 14.6; 3/30/50, 11.5; 11/9/50, 16.7; 3/30/51, 9.3; 11/15/51, 15.8; 4/1/52, 9.0; 11/5/52, 17.9.

1S/7E-3A1--Reference point-pipe in concrete base, elevation 43.1 feet. 0.1 mile west of Austin Road, 2 miles south of Mariposa Road. 7/25/49, 40.7 (oper.); 11/30/49, 15.6; 3/30/50, 11.5; 11/9/50, 16.8; 3/30/51, 9.3; 11/15/51, 17.9; 4/2/52, 8.3; 11/5/52, 18.3; 3/31/53, 17.0.

1S/7E-5C1--Reference point-pipe in concrete base, elevation 26.1 feet. 0.55 mile west of Highway 99, 1.8 miles south of Weber Road. 11/28/49, 11.2; 3/31/50, 7.5; 11/9/50, 11.0; 3/30/51, 5.8; 11/15/51, 10.8; 3/31/52, 4.0; 11/5/52, 10.6.

1S/7E-5A1--Reference point-pipe in concrete base, elevation 28.5 feet. 0.10 mile east of Highway 99, 1.50 miles south of Weber Road. 7/22/49, 12.5; 11/28/49, 12.9; 2/1/50, 10.9; 3/1/50, 9.1; 4/6/50, 9.4; 5/3/50, 11.1; 6/30/50, 12.8; 8/1/50, 47.0 (oper.); 9/1/50, 15.7; 10/3/50, 14.0; 11/3/50, 13.4; 12/4/50, 11.5; 1/9/51, 7.9; 3/6/51, 6.5; 3/30/51, 6.8; 5/1/51, 9.9; 6/4/51, 10.6; 7/5/51, 12.3; 8/1/51, 13.9; 9/5/51, 14.4; 10/2/51, 13.4; 11/15/51, 13.0; 1/17/52, 10.5; 2/27/52, 7.1; 3/31/52, 5.6; 11/6/52, 14.0; 3/31/53, 15.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/7E-6M2--Reference point-top of 6" x 6" pump support over 5' pit, elevation 24 feet. East side of Durham Ferry Road, 0.2 mile north of French Camp Road. 11/28/49, 13.1; 4/6/50, 11.4; 11/10/50, 12.2; 3/27/51, 9.3; 11/13/51, 11.6; 3/31/52, 8.5; 11/5/52, 10.2; 3/31/53, 13.0.

1S/7E-8J2--Reference point-top of casing, elevation 31.3 feet. North side of French Camp Road, 0.5 mile west of Highway 99. 6/1/50, 9.8 (oper.); 7/3/50, 10.7; 8/1/50, 9.9 (oper.); 8/31/50, 10.4 (oper.); 10/6/50, 7.2; 11/9/50, 7.8; 12/4/50, 5.8; 1/9/51, 5.1; 3/6/51, 5.0; 3/30/51, 5.6; 5/1/51, 5.6; 6/4/51, 8.4 (oper.); 7/5/51, 9.5 (oper.); 8/1/51, 6.8; 10/2/51, 7.2; 11/15/51, 8.1; 1/17/52, 4.6; 2/27/52, 4.5; 3/31/52, 4.7; 11/5/52, 7.6.

1S/7E-10A1--Reference point-hole in pump base, elevation 42.1 feet. West side of Austin Road, north of Lynch Road. 12/12/49, 11.3; 3/30/50, 8.2; 11/9/50, 12.8; 3/30/51, 6.3; 11/15/51, 13.0; 4/1/52, 6.1; 11/5/52, 14.6; 3/31/53, 12.7.

1S/7E-11H1--Reference point-hole in pump base, elevation 47.9 feet. 0.1 mile south of Lynch Road, 1 mile east of Austin Road. 12/1/49, 11.7, 3/30/50, 9.4; 11/9/50, 13.5; 3/30/51, 8.0; 11/15/51, 13.9; 4/2/52, 7.1.

1S/7E-11L1--Reference point-hole in pump base, elevation 45.1 feet. 0.45 mile east of Austin Road, 1.24 miles north of French Camp Road. 7/27/49, 11.8; 12/1/49, 10.6; 3/30/50, 8.4; 11/9/50, 11.9; 3/30/51, 6.7; 11/15/51, 12.3; 11/5/52, 12.6; 3/31/53, 11.7.

1S/7E-12H1--Reference point-top of casing, elevation 49.7 feet. 0.02 mile west of intersection of Wildwood and Jack Tone Roads. 7/27/49, 10.8; 12/5/49, 11.1; 2/1/50, 10.9; 3/1/50, 10.0; 4/9/50, 9.5; 5/3/50, 9.5; 6/1/50, 10.4; 7/3/50, 11.4; 8/1/50, 12.1; 8/31/50, 25.6 (oper.); 10/6/50, 13.5; 11/8/50, 13.2; 12/4/50, 12.6; 1/9/50, 10.9; 3/6/51, 9.1; 3/30/51, 8.7; 5/1/51, 9.4; 6/4/51, 10.4; 7/5/51, 11.3; 8/1/51, 12.7; 9/5/51, 12.8; 10/2/51, 12.8; 11/15/51, 13.6; 1/17/52, 12.5; 2/27/52, 10.1; 4/1/52, 8.5; 11/6/52, 14.8; 3/30/53, 13.1.

1S/7E-13C1--Reference point-pipe in concrete base, elevation 46 feet. 0.6 mile west of Jack Tone Road, 0.7 mile south of Wildwood Road. 12/1/49, 9.2; 3/30/50, 7.4; 3/30/51, 6.7; 11/16/51, 11.8; 4/4/52, 5.8; 11/10/52, 11.2; 3/30/53, 10.2.

1S/7E-14E1--Reference point-pipe in concrete base, elevation 42.9 feet. 0.2 mile north of French Camp Road, 0.3 mile east of Austin Road. 12/1/49, 6.8; 3/30/50, 4.7; 11/8/50, 7.1; 3/30/51, 4.8; 11/15/51, 7.6; 4/4/52, 3.5.

1S/7E-14P1--Reference point-top of casing, elevation 39.7 feet. North side of French Camp Road, 0.43 mile east of Prescott Road. 7/27/49, 0.1; 12/1/49, 1.4; 4/7/50, +0.9; 11/8/50, 1.6; 3/30/51, +1.2; 11/15/51, 1.9; 4/4/52, +1.5; 11/5/52, 1.2; 3/31/53, 0.0.

1S/7E-15D1--Reference point-top of casing, elevation 39.0 feet. North side of French Camp Road, 0.7 mile west of Austin Road. 7/26/49, 7.6; 12/1/49, 8.6; 4/7/50, 6.8; 11/9/50, 8.5; 3/30/51, 6.0.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)

Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/7E-15F1--Reference point-top of casing, elevation 40.5 feet. North side of French Camp Road, 0.3 mile west of Austin Road. 7/26/49, 6.7; 12/1/49, 7.9; 11/9/50, 7.9; 3/30/51, 4.8; 11/15/51, 8.3; 4/4/52, 4.0; 11/5/52, 8.4; 3/31/53, 6.5.

1S/7E-24D1--Reference point-top of casing, elevation 48.8 feet. 0.09 mile north of French Camp Road, 0.86 mile west of Jack Tone Road. 7/27/49, 6.5; 12/1/49, 7.9; 4/7/50, 5.8; 11/8/50, 8.4; 3/30/51, 5.8; 11/15/51, 8.7; 4/4/52, 4.9; 11/7/52, 7.9; 3/30/53, 7.8.

1S/7E-24A1--Reference point-top of casing, elevation 48.8 feet. 0.05 mile west of Jack Tone Road, 0.85 mile north of French Camp Road. 7/27/49, 2.4; 12/5/49, 5.8; 2/1/50, 3.9; 3/1/50, 3.9; 4/6/50, 3.7; 5/3/50, 4.2; 6/1/50, 5.1; 7/3/50, 5.8; 8/1/50, 6.2; 8/31/50, 6.8; 10/6/50, 7.1; 11/8/50, 7.3; 12/4/50, 6.1; 1/9/51, 4.3; 3/6/51, 3.4; 3/30/51, 3.9; 5/1/51, 4.5; 6/4/51, 4.8; 7/5/51, 5.9; 8/1/51, 7.1; 9/5/51, 7.4; 10/2/51, 6.8; 11/23/51, 7.5; 3/27/51, 3.7; 4/2/52, 3.0; 11/5/52, 7.2; 3/30/53, 6.0.

1S/8E-1K1--Reference point-hole in pump base, elevation 89 feet. 0.55 mile east of Van Allen Road, 0.28 mile north of Skiff Road. 7/28/49, 52.7 (oper.); 12/8/49, 37.8; 4/5/50, 34.1; 11/1/50, 42.3; 3/29/51, 36.4; 11/21/51, 44.9.

1S/8E-1P1--Reference point-slot in concrete base, elevation 87 feet. North side of Skiff Road, 0.5 mile east of Van Allen Road. 2/27/52, 36.7; 11/13/52, 49.5; 3/26/53, 42.7.

1S/8E-2H1--Reference point-top of casing at bottom of 13 foot pit, elevation 72.4 feet. West side of Van Allen Road, 1.3 miles south of Gawne Road. 7/29/49, 29.5; 12/6/49, 23.9; 4/5/50, 18.0; 11/6/50, 29.0; 3/29/51, 19.6; 11/23/51, 30.6; 4/8/52, 22.0; 11/13/52, 34.4; 3/26/53, 26.1.

1S/8E-2R1--Reference point-pipe in casing, elevation 86.7 feet. 0.1 mile north of Skiff Road and 0.1 mile west of Van Allen Road. 12/5/49, 38.9; 2/1/50, 34.2; 3/1/50, 32.8; 4/5/50, 32.7; 5/4/50, 63.5 (oper.); 6/2/50, 63.1 (oper.); 7/3/50, 63.8 (oper.); 8/2/50, 63.3 (oper.); 8/31/50, 62.9 (oper.); 10/5/50, 48.0; 11/1/50, 43.5; 12/6/50, 43.0; 3/7/51, 34.4; 3/29/51, 33.8; 5/4/51, 34.9; 6/4/51, 62.9 (oper.); 7/6/51, 64.1 (oper.); 8/2/51, 63.6 (oper.); 9/6/51, 53.8 (oper.); 11/23/51, 53.5 (oper.).

1S/8E-4H1--Reference point-top of casing, elevation 72.7 feet. South side of Mariposa Road, 1 mile east of Murphy Road. 7/26/49, 74.5 (oper.); 12/5/49, 28.5; 4/6/50, 24.7; 11/3/50, 31.1; 3/29/51, 25.5; 11/23/51, 33.7; 4/9/52, 28.0; 11/6/52, 36.0; 3/26/53, 31.5.

1S/8E-5R1--Reference point-slot in casing, elevation 63.2 feet. West side of Murphy Road, 0.5 mile north of Wildwood Road. 7/25/49, 36.7 (oper.); 12/5/49, 19.6; 4/6/50, 18.1; 5/2/50, 18.1; 6/2/50, 37.2 (oper.); 6/30/50, 22.6; 8/2/50, 40.8 (oper.); 9/1/50, 40.5 (oper.); 10/3/50, 19.2; 11/8/50, 20.6; 3/29/51, 17.9; 11/16/51, 24.1; 4/8/52, 19.6; 11/6/52, 24.6.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/8E-6D1--Reference point-hole in pump base, elevation 56.9 feet. South side of Verdon Road, 0.15 mile east of Jack Tone Road. 11/30/49, 20.3; 4/3/50, 18.1; 5/3/50, 18.9; 6/1/50, 38.8 (oper.); 6/30/50, 21.5; 8/1/50, 23.7; 9/1/50, 26.0; 10/3/50, 24.4; 11/9/50, 22.9; 4/2/52, 18.1; 11/6/52, 25.1.

1S/8E-7J1--Reference point-top of casing, elevation 57 feet. South side of Wildwood Road, 0.95 mile east of Jack Tone Road. 7/24/49, 13.6; 12/5/49, 14.6; 3/31/50, 13.2; 11/8/50, 16.8; 3/29/51, 13.0; 11/15/51, 17.7; 4/4/52, 12.8; 11/6/52, 17.4.

1S/8E-8J2--Reference point-pump base hole, elevation 64 feet. West side of Murphy Road, 0.1 mile south of Wildwood Road. 11/8/50, 19.8; 3/29/51, 16.5; 11/16/51, 21.2; 4/4/52, 17.2; 11/6/52, 21.8.

1S/8E-8R1--Reference point-hole in pump base, elevation 61.1 feet. Northwest corner Dodds and Murphy Roads. 7/26/49, 13.4; 12/1/49, 15.0; 3/31/50, 13.4; 11/8/50, well filled in.

1S/8E-9A1--Reference point-pump base hole, elevation 71.0 feet. 1 mile east of Murphy Road, 1 mile north of Dodd Road. 7/25/49, 53.8 (oper.); 12/5/49, 24.9; 3/31/50, 21.6; 11/3/50, 27.3; 3/29/51, 22.3; 11/16/51, 29.5; 4/9/52, 24.2; 11/6/52, 32.2; 3/26/53, 27.2.

1S/8E-10F2--Reference point-pump base hole, elevation 74 feet. 0.5 mile north of Dodds Road, 0.5 mile west of Carrolton Road. 12/5/49, 26.2; 4/6/50, 24.0; 11/3/50, 29.1; 11/16/51, 30.4; 4/4/52, 24.6; 11/10/52, 32.3; 3/26/53, 27.5.

1S/8E-11L1--Reference point-hole in pump base, elevation 80.0 feet. 0.2 mile southwest of Mariposa Road, 0.5 mile west of Van Allen Road. 12/7/49, 30.5; 4/7/50, 26.6; 11/3/50, 34.9; 11/23/51, 34.8; 4/9/52, 29.7; 11/10/52, 40.3.

1S/8E-11R1--Reference point-hole in pump base, elevation 86.4 feet. West side of Van Allen Road, 0.3 mile north of Dodds Road. 7/29/49, 39.1; 12/7/49, 34.3; 2/1/50, 31.6; 3/1/50, 30.3; 4/5/50, 31.8; 5/4/50, 34.0; 6/2/50, 39.3; 7/3/50, 40.5; 8/2/50, 41.7; 8/31/50, 52.0 (oper.); 10/5/50, 42.7; 11/3/50, 39.9; 12/6/50, 35.9; 1/10/51, 32.8; 3/6/51, 29.8; 3/29/51, 30.8; 5/1/51, 33.0; 6/4/51, 38.9; 7/5/51, 41.7; 8/2/51, 52.1; 10/1/51, 46.3; 11/23/51, 53.5; 2/27/52, 36.7; 4/9/52, 32.6; 11/10/52, 45.5; 3/26/53, 35.4.

1S/8E-12A1--Reference point-hole in pump base, elevation 96 feet. 0.2 mile south of Skiff Road, 1 mile east of Van Allen Road. 12/8/49, 39.9; 4/3/50, 36.3; 11/1/50, 44.4; 11/23/51, 46.1; 11/13/52, 53.4.

1S/8E-14L1--Reference point-hole in pump base, elevation 77 feet. 0.2 mile east of Robinson Road, 0.5 mile south of Dodds Road. 11/3/50, 30.4; 3/29/51, 24.1; 11/23/51, 33.1; 4/9/52, 25.7; 11/10/52, 35.4.

1S/8E-14P1--Reference point-top of casing, elevation 78.3 feet. West side of Robinson Road, 0.1 mile north of Avena Road. 12/7/49, 16.4; 4/7/50, 13.4.

THE UNIVERSITY OF CHICAGO
DIVISION OF THE PHYSICAL SCIENCES
DEPARTMENT OF CHEMISTRY
530 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607-7070

TO: THE DIRECTOR, NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
100 BUREAU DRIVE
GAITHERSBURG, MARYLAND 20899-0001

FROM: DR. J. H. DUNN, JR.
DEPARTMENT OF CHEMISTRY
THE UNIVERSITY OF CHICAGO
530 SOUTH EAST ASIAN AVENUE
CHICAGO, ILLINOIS 60607-7070

SUBJECT: 1,2-DICHLOROBENZENE
CAS NO. 95-50-1
MOL. WT. 147.03
BOILING PT. 180.5°C

1,2-Dichlorobenzene is a colorless liquid with a characteristic odor. It is insoluble in water but miscible with most organic solvents. It is used as a solvent in the synthesis of many organic compounds. It is also used in the production of dyes and pigments. The compound is stable under normal conditions but can be oxidized by strong oxidizing agents.

The following data were obtained from a gas chromatograph-mass spectrometer (GC-MS) analysis of a sample of 1,2-dichlorobenzene. The sample was identified as 1,2-dichlorobenzene with a confidence level of 99.9%. The molecular weight of the compound is 147.03. The boiling point is 180.5°C. The density is 1.30 g/mL. The refractive index is 1.54. The compound is stable under normal conditions but can be oxidized by strong oxidizing agents.

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DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/8E-14R1--Reference point-top of casing, elevation 86.8 feet. 0.1 mile north of Avena Road, 0.14 mile west of Van Allen Road. 7/29/49, 49.7 (oper.); 12/7/49, 31.2; 2/1/50, 29.2; 3/1/50, 28.2; 4/7/50, 28.5; 5/4/50, 29.1; 6/2/50, 45.4 (oper.); 7/3/50, 47.2 (oper.); 8/2/50, 49.4 (oper.); 8/31/50, 51.2 (oper.); 10/5/50, 49.8 (oper.); 11/3/50, 34.0; 12/6/50, 32.0; 1/9/51, 30.0; 3/6/51, 27.9; 3/29/51, 28.5; 5/1/51, 29.7; 6/4/51, 47.6 (oper.); 7/5/51, 48.2 (oper.); 8/1/51, 51.9 (oper.); 10/2/51, 39.7; 11/23/51, 36.8; 2/27/52, 30.8; 4/9/52, 29.5; 11/10/52, 38.3.

1S/8E-15D1--Reference point-top of casing, elevation 67.7 feet. North side of French Camp Road, 0.7 mile west of Austin Road. 7/25/49, 20.3; 12/7/49, 19.7; 4/6/50, 16.8; 11/3/50, 22.5; 3/29/51, 17.4; 11/16/51, 24.8.

1S/8E-16C1--Reference point-hole in pump base, elevation 63.8 feet. 0.1 mile south of Dodds Road, 0.25 mile east of Murphy Road. 12/1/49, 16.4; 3/31/50, 14.4; 5/2/50, 14.4; 6/2/50, 17.1; 6/30/50, 18.2; 8/2/50, 19.2; 9/1/50, 38.7 (oper.); 10/3/50, 18.5; 11/3/50, 18.6; 3/29/51, 14.4; 5/1/51, 16.1; 6/6/51, 18.9; 7/5/51, 36.2 (oper.); 4/4/52, 15.5; 11/6/52, 26.1; 3/30/53, 19.0.

1S/8E-17E1--Reference point-top of casing, elevation 57 feet. 1 mile south of Wildwood Road, 0.8 mile west of Murphy Road. 12/5/49, 12.4; 3/31/50, 10.7; 11/8/50, 14.1; 3/29/51, 11.0; 11/16/51, 16.2; 4/8/52, 10.0; 11/10/52, 15.0; 3/30/53, 14.4.

1S/8E-18E1--Reference point-top of bell housing above casing, elevation 50.5 feet East side of Jack Tone Road, 0.86 mile south of Wildwood Road. 7/27/49, 7.7; 12/5/49, 1.9; 4/6/50, 7.2; 11/8/50, 10.8; 3/30/51, 6.6; 11/15/51, 11.2; 4/2/52, 5.7; 11/6/52, 10.9; 3/30/53, 10.2.

1S/8E-19A1--Reference point-top of casing, elevation 52 feet. 1 mile east of Jack Tone Road, 1 mile north of Lone Tree Road. 7/25/49, 8.4; 12/1/49, 5.7; 3/31/50, 2.9; 11/8/50, 7.0; 3/30/51, 3.0; 11/16/51, 8.1; 4/4/52, 1.9; 11/7/52, 7.2.

1S/8E-19N1--Reference point-top of concrete casing, elevation 51.4 feet. East side of Jack Tone Road, 0.05 mile north of Lone Tree Road. 7/25/49, 7.1; 12/1/49, 7.2; 2/1/50, 5.0; 3/1/50, 5.2; 4/7/50, 5.3; 5/3/50, 5.8; 6/1/50, 6.7; 7/3/50, 7.5; 8/1/50, 7.9; 8/31/50, 8.3; 10/6/50, 8.5; 11/3/50, 8.4; 12/4/50, 6.9; 1/9/51, 5.3; 3/6/51, 4.5; 3/30/51, 5.2; 5/1/51, 5.4; 6/4/51, 7.8; 7/5/51, 10.1; 8/1/51, 7.3; 9/5/51, 7.8; 10/2/51, 6.9; 11/15/51, 8.4; 1/17/52, 4.4; 2/27/52, 3.2; 4/1/52, 4.4; 11/5/52, 8.3; 3/30/53, 7.0.

1S/8E-19Q1--Reference point-top of bottom flange on suction pipe, elevation 51.1 feet. North side of Lone Tree Road, 0.7 mile east of Jack Tone Road. 12/1/49, 4.6; 4/7/50, 2.5; 11/3/50, 6.5; 3/30/51, 1.8; 11/16/51, 5.9; 4/4/52, 0.9; 11/7/52, 7.5; 3/30/53, 4.4.

1S/8E-20H1--Reference point-top of casing in pit, elevation 58 feet. West side of Murphy Road, 0.6 mile north of Lone Tree Road. 12/1/49, 11.6; 4/7/50, 9.4; 11/3/50, 10.1; 3/29/51, 5.8; 11/16/51, 10.6; 4/4/52, 5.8; 11/10/52, 11.0; 3/30/53, 9.7.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/8E-20R1--Reference point-top of flange joint on suction pipe, elevation 60.7 feet. Northwest corner of Murphy and Lone Tree Roads. 7/25/49, 8.4; 12/1/49, 9.3; 4/7/50, 7.0; 11/3/50, 10.5; 3/29/51, 6.1; 11/16/51, 10.8; 4/4/52, 6.2; 11/10/52, 10.6.

1S/8E-21B1--Reference point-top of casing, elevation 64 feet. South side of Avena Road, 0.7 mile east of Murphy's Ferry Road. 7/26/49, 12.9; 12/1/49, 14.2; 4/7/50, 12.0; 11/3/50, 15.9; 3/29/51, 11.7; 11/16/51, 16.9; 4/4/52, 11.4; 11/10/52, 18.2; 3/30/53, 15.9.

1S/8E-21P1--Reference point-top of casing in pit, elevation 58 feet. 0.05 mile north of Lone Tree Road, 0.3 mile east of Murphy Road. 12/1/49, 5.5; 4/7/50, 3.3; 11/3/50, 6.5; 3/29/51, 2.5; 11/16/51, 7.2; 4/4/52, 2.7; 11/10/52, 7.2; 3/30/53, 7.8.

1S/8E-22H2--Reference point-hole in pump base, elevation 75.8 feet. West side of Carrollton Road, 0.3 mile south of Avena Road. 12/1/49, 20.0; 4/7/50, 17.5; 11/3/50, 22.1; 3/29/51, 17.4; 11/16/51, 24.6; 11/10/52, 25.0.

1S/8E-22R1--Reference point-top of casing, elevation 70.2 feet. West side of Carrollton Road, 0.1 mile north of Lone Tree Road. 7/25/49, 9.6; 12/1/49, 11.1; 4/7/50, 8.5; 11/3/50, 12.2; 3/29/51, 8.5; 11/16/51, 13.1; 4/4/52, 9.5; 11/10/52, 13.5; 3/30/53, 12.3.

1S/8E-24C1--Reference point-hole in pump base, elevation 93.4 feet. 0.5 mile east of intersection of Van Allen and Avena Roads. 12/7/49, 34.2; 4/7/50, 32.0; 11/3/50, 37.8; 11/23/51, 39.4; 4/9/52, 33.0; 11/10/52, 42.2; 3/27/53, 35.9.

1S/8E-24N1--Reference point-top of casing, elevation 91.3 feet. Northeast corner of Van Allen and Lone Tree Roads. 7/29/49, 39.7 (oper.); 12/7/49, 27.4; 2/1/50, 26.4; 3/1/50, 25.6; 4/7/50, 25.6; 5/3/50, 25.9; 6/2/50, 26.6; 7/3/50, 27.4; 8/2/50, 29.2; 8/31/50, 29.7; 10/5/50, 29.9; 11/3/50, 28.6; 12/6/50, 27.4; 1/9/51, 26.4; 3/6/51, 25.4; 3/29/51, 26.3; 5/1/51, 24.9; 6/4/51, 27.2; 7/6/51, 27.5; 8/2/51, 29.3; 9/5/51, 29.1; 11/3/51, 28.5; 1/17/52, 28.1; 2/27/52, 26.7; 4/4/52, 26.3; 11/10/52, 30.0; 3/27/53, 28.6.

1S/8E-24R1--Reference point-top of casing, elevation 94 feet. North side of Lone Tree Road, 1 mile east of Van Allen Road. 12/7/49, 26.0; 4/7/50, 23.8; 11/3/50, 27.1; 3/29/51, 24.7; 11/23/51, 28.8; 4/4/52, 24.9; 11/10/52, 29.0; 3/27/53, 26.7.

1S/8E-25I1--Reference point-top of casing, elevation 91 feet. 0.4 mile south of Lone Tree Road, 0.5 mile east of Van Allen Road. 12/7/49, 21.2; 4/7/50, 20.4; 11/3/50, 21.8; 3/30/51, 20.5; 11/23/51, 23.7; 4/4/52, 21.2; 11/10/52, 27.1.

1S/8E-27D1--Reference point-top flange on suction pipe in 9 foot pit, elevation 59 feet. Southeast corner Wagner and Lone Tree Roads. 7/26/49, 2.8; 12/1/49, 3.5; 4/7/50, 1.0; 11/3/50, 4.2.

1S/8E-27E1--Reference point-top of casing, elevation 71 feet. 0.15 mile east of Wagner Road, 0.5 mile south of Lone Tree Road. 4/4/52, 12.0; 11/10/52, 14.2.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/8E-29C1--Reference point-top of casing, elevation 58.0 feet. South of Lone Tree Road, 0.2 mile west of Due Road. 12/1/49, 9.0; 4/7/50, 6.5; 11/3/50, 10.1; 3/30/51, 5.7; 11/16/51, 11.2.

1S/8E-29E1--Reference point-hole in pump base, elevation 58.4 feet. 0.25 mile west of Due Road, 0.5 mile south of Lone Tree Road. 12/1/49, 9.6; 4/7/50, 6.9; 5/2/50, 24.0 (oper.); 6/2/50, 10.0; 6/30/50, 10.4; 8/2/50, 21.7 (oper.); 9/1/50, 12.1; 10/3/50, 11.2; 11/3/50, 11.2; 3/3/51, 5.9; 5/1/51, 6.7; 6/4/51, 9.2; 7/5/51, 11.6; 4/4/52, 5.5; 11/7/52, 10.3; 3/30/53, 8.5.

1S/8E-29H1--Reference point-hole in pump base, elevation 64.7 feet. West side of Murphy Road, 0.5 mile south of Lone Tree Road. 12/1/49, 11.7; 4/3/50, 9.1; 5/2/50, 17.0 (oper.); 6/2/50, 10.7; 6/30/50, 11.9; 8/2/50, 20.8 (oper.); 9/1/50, 13.2; 10/3/50, 18.2 (oper.); 11/3/50, 12.4; 5/1/51, 8.2; 6/4/51, 10.1; 7/5/51, 18.7; 4/4/52, 8.5; 11/7/52, 12.1; 3/30/53, 11.2.

1S/9E-5N1--Reference point-hole in pump base, elevation 102.5 feet. North side of Skiff Road, 0.7 mile west of Escalon-Bellota Road. 7/28/49, 57.2 (oper.); 12/8/49, 38.5; 11/1/50, 42.0; 3/29/51, 37.5; 11/21/51, 43.3; 4/8/52, 37.3; 11/13/52, 48.1; 3/27/53, 41.3.

1S/9E-5R1--Reference point-hole in pump base, elevation 106.7 feet. Northwest corner of Skiff and Escalon-Bellota Roads. 7/28/49, 66.5 (oper.); 12/8/49, 38.7; 11/1/50, 40.1; 11/21/51, 41.4; 4/2/52, 36.5; 11/13/52, 48.9; 3/27/53, 41.4.

1S/9E-7N1--Reference point-top of concrete curb of 15 foot pit, elevation 96.4 feet. 0.1 mile north of Dodds Road, 1.1 miles east of Van Allen Road. 7/28/49, 39.4; 12/8/49, 37.7; 4/5/50, 33.5; 11/2/50, 40.8; 4/2/52, 49.1 (oper.); 11/6/52, 57.2; 3/27/53, 39.0.

1S/9E-8J1--Reference point-slot in concrete base, elevation 111.6 feet. 0.32 mile north of Dodds Road, 0.08 mile west of Escalon-Bellota Road. 7/29/49, 58.4 (oper.); 12/8/49, 40.7; 1/31/50, 38.8; 3/1/50, 38.0; 4/5/50, 40.8; 5/4/50, 43.8; 6/2/50, 63.2 (oper.); 7/3/50, 61.9 (oper.); 8/3/50, 59.4 (oper.); 8/31/50, 59.0 (oper.); 10/5/50, 60.1 (oper.); 11/1/50, 44.0; 12/6/50, 41.8; 1/9/51, 40.5; 3/8/51, 38.7; 5/2/51, 39.7; 6/4/51, 57.2 (oper.); 7/3/51, 61.3 (oper.); 8/3/51, 60.2 (oper.); 11/23/51, 44.8; 1/16/52, 42.8; 2/27/52, 40.8.

1S/9E-8P1--Reference point-hole in pump base, elevation 105.1 feet. North side of Dodds Road, 0.75 mile west of Escalon-Bellota Road. 7/29/49, 44.7; 12/8/49, 39.0; 4/5/50, 37.2; 11/2/50, 42.1; 3/29/51, 40.4; 4/2/52, 39.9.

1S/9E-9R1--Reference point-hole in pump base, elevation 128.6 feet. North side of Dodds Road, 0.82 mile east of Escalon-Bellota Road. 7/28/49, 70.6 (oper.); 12/8/49, 52.9; 11/1/50, 54.8; 3/29/51, 51.3; 11/23/51, 55.7; 4/2/52, 51.9; 11/13/52, 61.7; 3/26/53, 58.5.

1S/9E-10R1--Reference point-hole in pump base, elevation 131 feet. 0.1 mile north of Dodds Road, 1 mile west of Henry Road. 12/8/49, 42.6; 4/4/50, 40.0; 11/1/50, 45.1; 3/29/51, 41.4; 4/2/52, 44.3; 11/6/52, 54.4.

DEPTHS TO GROUND WATER AT MEASUREMENT
WELLS IN SAN JOAQUIN AREA (Continued)
Measurements Made by Division of Water Resources
(Depths to water in feet measured from reference point)

1S/9E-17L1--Reference point-top of casing, elevation 106.9 feet. 0.5 mile north of Mariposa Road, 0.5 mile west of Escalon-Bellota Road. 12/7/49, 36.8; 4/5/50, 35.0; 11/2/50, 38.9; 11/23/51, 39.2; 4/9/52, 36.7; 11/10/52, 43.1.

1S/9E-17N1--Reference point-hole in pump base, elevation 104 feet. Northeast corner Brennan and Mariposa Roads. 8/31/50, 44.6; 10/5/50, 46.0; 11/2/50, 40.8; 12/6/50, 37.8; 1/10/51, 35.3; 3/6/51, 33.9; 3/29/51, 35.3; 5/2/51, 36.2; 6/4/51, 41.9; 7/6/51, 57.9 (oper.); 8/2/51, 54.9 (oper.); 10/2/51, 47.2; 11/23/51, 46.9; 1/16/52, 41.5; 2/27/52, 36.9; 4/9/52, 36.5; 11/10/52, 45.3; 3/27/53, 38.4.

1S/9E-18F1--Reference point-top of casing, elevation 98.7 feet. South side of Mariposa Road, 0.8 mile southeast of Dodds Road. 12/7/49, 47.6; 4/7/50, 33.4; 8/1/50, 43.6; 8/31/50, 53.5; 10/5/50, 48.8; 11/2/50, 41.3; 12/6/50, 43.0; 1/10/51, 40.7; 3/6/51, 38.6; 5/4/51, 40.4; 6/4/51, 51.2 (oper.); 7/6/51, 48.1; 8/2/51, 51.4; 11/23/51, 46.9; 1/16/52, 41.5; 2/27/52, 36.9; 4/9/52, 39.5; 11/10/52, 51.4; 3/27/53, 37.6.

1S/9E-18R1--Reference point-top of casing, elevation 106.2 feet. South side of Mariposa Road, 1.2 miles west of Escalon-Bellota Road. 7/29/49, 48.5 (oper.); 12/7/49, 39.9; 8/3/50, 37.3 (oper.); 8/31/50, 27.5 (oper.).

1S/9E-19F1--Reference point-top of casing, elevation 100 feet. 0.7 mile west of Brennan Road, 0.7 mile north of Lone Tree Road. 12/7/49, 39.2; 4/7/50, 35.8; 11/2/50, 40.6; 11/23/51, 41.5; 4/4/52, 41.7 (oper.).

1S/9E-20F1--Reference point-hole in pump base, elevation 108.9 feet. 0.2 mile south of Mariposa Road, 0.5 mile west of Escalon-Bellota Road. 12/7/49, 34.3; 4/5/50, 32.8; 11/2/50, 35.4; 3/30/51, 33.4; 11/23/51, 36.5; 4/9/52, 33.9; 11/10/52, 38.4.

1S/9E-20N1--Reference point-hole in pump base, elevation 108 feet. 0.1 mile north of Lone Tree Road, 0.1 mile east of Brennan Road. 12/27/49, 34.9; 4/7/50, 33.4; 11/2/50, 34.4; 11/23/51, 35.1; 4/4/52, 35.0; 11/10/52, 38.0; 3/27/53, 35.8.

1S/10E-12L1--Reference point-top of pump support, elevation 245 feet. East side of 28 Mile Road, 3 miles southeast of Town of Eugene. 4/3/52, 90.1; 11/12/52, 91.3; 3/27/53, 91.7.

TABLE 2

DEPTHS TO GROUND WATER
IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955

TABLE 2

DEPTHS TO GROUND WATER IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955

Well number	Fall, 1953		Spring, 1954		Fall, 1954		Spring, 1955	
	Date	Feet	Date	Feet	Date	Feet	Date	Feet
N/7E-25G1	Oct. 26	59.9	Mar. 25	54.2	Nov. 22	64.5	Mar. 23	60.9
35C2	Oct. 26	48.6	Mar. 25	44.9	Nov. 22	50.2	Mar. 23	48.2
35L1	Oct. 26	49.3	Mar. 25	44.1	Nov. 22	51.5	Mar. 23	49.8
36D1	Oct. 26	52.7	Mar. 25	52.1	Nov. 22	62.3	Mar. 23	52.1
36K1	Oct. 26	59.8	Mar. 25	45.9	Nov. 22	67.5	Mar. 24	60.1
N/8E-29G1	Oct. 26	77.2	Mar. 25	68.6	Nov. 22	73.0	Mar. 23	70.2
32P1	Oct. 26	68.1	Mar. 25	63.8	Nov. 22	68.2	Mar. 23	66.5
N/9E-25R1	Oct. 27	43.9	Mar. 26	37.6	Nov. 23	42.2	Mar. 23	37.6
33J1	Oct. 27	59.2	Mar. 26	57.5	Nov. 23	62.5	Mar. 23	60.4
35H1	Oct. 27	47.6	Mar. 26	51.4	Nov. 23	52.1	Mar. 23	47.0
36G1	Oct. 27	Oper.	Mar. 26	59.2	Nov. 23	56.7	Mar. 23	59.6
/10E-31M1	Oct. 27	71.2	Mar. 26	69.1	Nov. 23	84.2	Mar. 23	69.8
N/6E-12H1	Oct. 27	23.7	Mar. 23	Could not measure	Nov. 22	25.5	Mar. 21	24.8
13R1	Oct. 27	20.8	Mar. 23	23.8	Nov. 22	22.1	Mar. 21	25.9
24J2	Oct. 27	25.9	Mar. 23	26.1	Nov. 22	29.6	Mar. 21	21.7
26H1	Oct. 27	21.9	Mar. 23	24.9	Nov. 22	27.9	Mar. 21	27.6
26L2	Oct. 27	24.1	Mar. 23	24.7	Nov. 22	28.6	Mar. 21	24.8
27N1	Oct. 27	18.8	Mar. 23	Well plugged	-----	----	-----	----
34K1 ^a	Sept. 30	31	Feb. 1	26	Oct. 30	33	Feb. 28	26.
36A1 ^a	Sept. 30	37	Feb. 1	35	Oct. 30	42	Feb. 28	33
36R3 ^a	Sept. 30	46	Feb. 1	45	Oct. 30	52	Feb. 28	46
N/7E-1R2	Oct. 26	Oper.	Mar. 24	55.1	Nov. 23	60.1	Mar. 21	59.8
3E1	Oct. 27	45.3	----	----	----	----	----	----
3N3	Oct. 27	49.0	Mar. 23	42.2	Nov. 23	50.2	Mar. 21	47.3
5E1	Oct. 26	39.2	Mar. 25	33.9	Nov. 22	38.2	Mar. 21	49.2

DEPTHS TO GROUND WATER IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955 (continued)

Well number	Fall, 1953		Spring, 1954		Fall, 1954		Spring, 1955	
	Date	Feet	Date	Feet	Date	Feet	Date	Feet
N/7E-5R1	Oct. 27	50.2	Mar. 23	41.2	Nov. 23	49.3	Mar. 21	42.8
8D1	Oct. 27	41.2	----	----	Nov. 23	40.8	Mar. 21	36.2
8K3	Oct. 27	45.7	Mar. 23	38.9	Nov. 23	47.1	Mar. 21	46.2
9B2	Oct. 27	52.7	Mar. 23	45.7	Nov. 22	54.1	Mar. 21	49.2
9Q1	Oct. 27	49.7	----	----	----	----	----	----
10H2	Oct. 27	46.7	----	----	----	----	----	----
11H1	Oct. 27	52.4	Mar. 23	50.0	Nov. 23	57.2	Mar. 21	52.9
14P1	Oct. 27	50.5	Mar. 23	44.7	Nov. 23	53.1	Mar. 21	51.2
15C1	Oct. 27	52.3	Mar. 23	45.1	Nov. 23	59.4	Mar. 21	57.7
16L1	Oct. 27	50.0	Mar. 23	53.9	Nov. 22	53.8	Mar. 21	50.0
17G1	Oct. 27	42.1	----	----	----	----	----	----
18K1	Oct. 27	30.3	Mar. 23	29.6	Nov. 23	35.6	Mar. 21	31.8
19C2	Oct. 27	25.8	----	----	----	----	----	----
20K2	Oct. 27	42.3	----	----	----	----	----	----
20M1	Oct. 27	37.3	Mar. 23	35.2	Nov. 22	40.9	Mar. 21	39.0
22A2	Oct. 27	51.6	----	----	----	----	----	----
22E2	Oct. 27	54.3	----	----	----	----	----	----
23J2	Oct. 27	56.4	Mar. 23	50.4	Nov. 22	63.1	Mar. 21	53.6
23N1	Oct. 27	53.3	----	----	----	----	----	----
24B1	Oct. 26	58.4	Mar. 23	53.9	Nov. 23	61.2	Mar. 21	57.5
26N1	Oct. 26	53.2	Mar. 24	47.3	Nov. 23	57.0	Mar. 22	52.6
27D1	Oct. 27	54.1	Mar. 23	48.1	Nov. 23	55.6	Mar. 21	52.9
27P1	Oct. 26	51.6	----	----	----	----	----	----
31A1	Oct. 27	39.9	Mar. 24	37.4	Nov. 24	42.9	Mar. 22	37.4
31F1	Oct. 27	38.0	Mar. 24	35.3	Nov. 24	42.9	Mar. 22	37.0

DEPTHS TO GROUND WATER IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955 (continued)

Well number	Fall, 1953		Spring, 1954		Fall, 1954		Spring, 1955	
	Date	Feet	Date	Feet	Date	Feet	Date	Feet
2N/7E-32R1	Oct. 26	44.5	Mar. 24	42.8	Nov. 23	48.4	Mar. 22	45.4
33A1	Oct. 26	50.8	----	----	----	----	----	----
33D1	Oct. 26	49.2	Mar. 24	37.7	Nov. 23	52.8	Mar. 22	50.3
33R1	Oct. 26	46.0	Mar. 24	42.2	Nov. 24	49.7	Mar. 22	44.2
34C2	Oct. 26	51.5	----	----	----	----	----	----
35L1	Oct. 26	Oper.	Mar. 24	45.0	Nov. 24	55.0	Mar. 22	52.1
36H1	Oct. 27	51.9	Mar. 24	Could not measure	----	----	Mar. 22	51.3
2N/8E-3G2 ^b	Oct. 26	83.3	Mar. 25	78.3	Nov. 22	84.7	----	----
4C1	Oct. 26	75.0	Mar. 25	68.5	Nov. 22	74.7	Mar. 23	79.2
4L1	Oct. 26	71.4	----	----	----	----	----	----
7N1	Oct. 26	53.7	----	----	----	----	----	----
8B1	Oct. 26	64.9	----	----	----	----	----	----
8N1	Oct. 26	60.3	Mar. 24	58.2	Nov. 23	62.5	Mar. 21	59.6
9B1	Oct. 26	68.1	Mar. 24	61.3	Well destroyed, replaced by 2N/8E-9G2			
9G2 ^c	----	----	----	----	----	----	Mar. 21	64.8
9H2	Oct. 26	69.2	----	----	----	----	----	----
9M1	Oct. 26	65.9	----	----	----	----	----	----
10H1	Oct. 26	77.0	Mar. 24	74.2	Nov. 23	80.3	Mar. 21	78.8
10N1	Oct. 26	65.0	----	----	----	----	----	----
11B1	Oct. 26	73.3	Mar. 25	68.5	Nov. 23	77.2	Mar. 23	82.7
12L1	Oct. 26	76.4	Mar. 25	69.4	Nov. 23	75.4	Mar. 23	73.3
13K1	Oct. 26	72.6	Mar. 25	68.2	Nov. 23	75.7	Mar. 23	71.1
14C1	Oct. 26	76.2	Mar. 25	62.8	Nov. 23	77.2	Mar. 23	68.4
15M2	Oct. 26	63.6	Mar. 24	58.4	Nov. 23	68.4	Mar. 22	61.5
16D1	Oct. 26	61.0	Mar. 24	59.3	Nov. 23	64.3	Mar. 21	60.2

DEPTHS TO GROUND WATER IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955 (continued)

Well number	Fall, 1953		Spring, 1954		Fall, 1954		Spring, 1955	
	Date	Feet	Date	Feet	Date	Feet	Date	Feet
N/8E-18C1	Oct. 26	55.5	Mar. 23	50.1	Nov. 23	57.7	Mar. 21	60.1
19C3	Oct. 26	58.2	Mar. 24	54.6	Nov. 23	61.0	Mar. 22	56.8
19P2	Oct. 26	60.0	Mar. 24	56.2	Nov. 23	Could not measure	Mar. 22	61.8
20F1	Oct. 26	60.8	Mar. 24	55.3	Nov. 23	67.3	Mar. 22	60.2
21R1	Oct. 26	61.0	Mar. 24	57.9	Nov. 23	64.3	Mar. 22	60.0
24F1	Oct. 26	Oper.	Mar. 25	88.9	Nov. 23	98.5	Mar. 22	Oper.
25F1	Oct. 26	Oper.	Mar. 25	65.1	Nov. 23	82.2	Mar. 22	Oper.
29A1	Oct. 26	58.3	----	----	----	----	----	----
30H1	Oct. 26	57.7	Mar. 24	63.3	Nov. 23	60.8	Mar. 22	62.1
31N1	Oct. 27	55.1	Mar. 26	50.9	Nov. 24	57.4	Mar. 22	56.9
34E1	Oct. 27	62.1	Mar. 26	56.2	Nov. 24	65.5	Mar. 22	60.9
35C1	Oct. 26	65.9	Mar. 25	58.6	Nov. 23	67.9	Mar. 22	64.4
36L1	Oct. 26	68.1	Mar. 25	62.7	Nov. 23	70.8	Mar. 22	67.4
2/9E-3A1	Oct. 27	53.5	Mar. 26	50.0	Nov. 23	50.0	Mar. 23	48.8
4H1	Oct. 27	57.3	Mar. 26	58.3	Nov. 23	59.4	Mar. 23	57.9
5H1	----	----	----	----	----	----	Mar. 23	74.7
5L1	Oct. 26	77.9	Mar. 26	Falling water, could not measure			Mar. 23	25.9 ^d
5N1	Oct. 26	74.1	Mar. 26	74.8	Nov. 23	85.8	Mar. 23	76.5
6F1	Oct. 27	77.8	Mar. 25	81.5	Nov. 23	81.6	Mar. 23	80.6
7G2	Oct. 26	73.9	Mar. 26	72.2	Nov. 23	89.3	Mar. 23	82.6
9D1	Oct. 27	73.9	Mar. 26	77.6	Nov. 23	79.2	Mar. 23	Oper.
17C1	----	----	Mar. 26	138.9	Nov. 23	142.8	Mar. 23	141.5
18Q1	Oct. 26	78.8	Mar. 26	73.8	Nov. 23	88.0	Mar. 22	83.1

DEPTHS TO GROUND WATER IN CALAVERAS UNIT,
FALL OF 1953 THROUGH SPRING OF 1955 (continued)

Well number	: Date	: Feet	: Date	: Feet	: Date	: Feet	: Date	: Feet
	Fall, 1953		Spring, 1954		Fall, 1954		Spring, 1955	
1N/6E-1J1 ^a	Sept. 30	66.	Feb. 1	52	Oct. 30	64	Feb. 28	55
3C1 ^a	Sept. 30	41	Feb. 1	30	Oct. 30	40	Feb. 28	29
3J1 ^a	Oct. 5	51	Feb. 1	35	Oct. 30	50	Feb. 28	35
4B1 ^a	Oct. 5	37	Feb. 1	26	Oct. 30	37	Feb. 28	25
4D1 ^a	Sept. 30	35	Feb. 1	28	Oct. 30	41	Feb. 28	27
12F1 ^a	Oct. 4	70	Feb. 1	--	----	----	----	----
13J1 ^a	Sept. 30	60	Feb. 1	48	Oct. 30	59	Feb. 28	49
14C1 ^a	Sept. 30	59	Feb. 1	49	Oct. 30	60	Feb. 28	49
16H1	Oct. 26	33.5	Mar. 24	22.1	Nov. 24	26.4	----	----
1N/7E-1M1	Oct. 27	46.7	Mar. 26	42.8	Nov. 24	52.8	Mar. 22	50.3
4P3	Oct. 26	49.9	Mar. 24	46.9	Nov. 24	53.1	Mar. 22	47.5
4R1	Oct. 26	48.9	----	----	----	----	----	----
7E1 ^a	Sept. 30	49	Feb. 1	44	Aug. 25	57	Feb. 28	56.
8F3	Oct. 26	54.9	Mar. 24	50.2	Nov. 24	58.2	Mar. 22	54.6
8R1	Oct. 26	47.5	Mar. 24	43.9	Nov. 24	51.4	Mar. 22	47.3
11E1	Oct. 26	45.5	Mar. 24	43.8	Nov. 24	50.5	Mar. 22	49.1
11G1	Oct. 26	45.0	Mar. 24	42.4	Nov. 24	49.6	Mar. 22	48.8
18C5	Oct. 26	50.3	Mar. 26	47.4	Nov. 24	49.2	Mar. 23	57.0

- a - Well owned and measured by California Water Service Company.
b - Well No. 2N/8E-3G2--Reference point-hole in pump base, elevation 109.27 feet.
On north side of Eight Mile Road, 0.65 mile east of Duncan Road.
March 26, 1953, 71.7 feet.
c - Well No. 2N/8E-9G2--Reference point-top of casing, elevation 87.0 feet.
0.4 mile west of Duncan Road, 0.2 mile south of Waterloo Road on south
side of Meyer Road.
d - Depth reflects perched water table.

TABLE 3

DEPTHS TO GROUND WATER
IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954

TABLE 3

DEPTHS TO GROUND WATER IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954

Well number	Fall, 1953		Spring, 1954	
	Date	Feet	Date	Feet
2N/9E-36R1	Nov. 16	81.4	Mar. 26	81.3
1N/6E-35A1	----	----	Mar. 24	7.5
36R2	Oct. 28	10.9	Mar. 24	8.3
1N/7E-12Q1	Oct. 27	45.2	Mar. 26	43.3
13E1	Oct. 28	40.6	Mar. 26	41.9
15E1	Oct. 28	45.3	Mar. 26	Locked
18R2	Oct. 26	41.2	----	----
19P1	Oct. 28	36.0	----	----
19R1	Oct. 28	39.3	Mar. 24	30.9
20Q2	Oct. 28	39.8	Mar. 24	32.0
21B1	Oct. 28	27.8	Mar. 26	35.0
22H1	Oct. 28	39.1	Mar. 26	36.0
24J1	Oct. 26	46.6	Mar. 26	30.5
26A1	Oct. 27	43.8	Mar. 26	37.5
27H1	Oct. 27	32.1	Mar. 25	32.0
28A2	Oct. 27	Locked	Mar. 25	22.2
28M2	Oct. 28	36.3	Mar. 29	27.8
33A1	Oct. 27	32.6	Mar. 25	Caved in
33Q1	Oct. 27	22.8	----	----
35H1	Oct. 27	35.0	Mar. 26	36.7
1N/8E-10B1	Oct. 27	59.9	Mar. 26	54.7
11G2 ^a	Oct. 26	67.3	Mar. 25	68.3
13J1	Oct. 26	67.9	Mar. 25	52.4
13P1	Oct. 27	37.9	Mar. 26	37.8
14E1	Oct. 26	58.8	Mar. 25	52.1

TABLE 1 SUMMARY OF DATA FOR THE 1950-1951 FLOOD CONTROL PROJECT

Station	Date	Time	Flow (cfs)	Stage (ft)	Remarks
1	1950-1951	10/1	100	1.0	Normal
2	1950-1951	10/15	200	1.5	Normal
3	1950-1951	10/30	300	2.0	Normal
4	1950-1951	11/10	400	2.5	Normal
5	1950-1951	11/20	500	3.0	Normal
6	1950-1951	12/1	600	3.5	Normal
7	1950-1951	12/15	700	4.0	Normal
8	1950-1951	12/30	800	4.5	Normal
9	1950-1951	1/10	900	5.0	Normal
10	1950-1951	1/20	1000	5.5	Normal
11	1950-1951	1/30	1100	6.0	Normal
12	1950-1951	2/10	1200	6.5	Normal
13	1950-1951	2/20	1300	7.0	Normal
14	1950-1951	2/28	1400	7.5	Normal
15	1950-1951	3/10	1500	8.0	Normal
16	1950-1951	3/20	1600	8.5	Normal
17	1950-1951	3/30	1700	9.0	Normal
18	1950-1951	4/10	1800	9.5	Normal
19	1950-1951	4/20	1900	10.0	Normal
20	1950-1951	4/30	2000	10.5	Normal
21	1950-1951	5/10	2100	11.0	Normal
22	1950-1951	5/20	2200	11.5	Normal
23	1950-1951	5/30	2300	12.0	Normal
24	1950-1951	6/10	2400	12.5	Normal
25	1950-1951	6/20	2500	13.0	Normal
26	1950-1951	6/30	2600	13.5	Normal
27	1950-1951	7/10	2700	14.0	Normal
28	1950-1951	7/20	2800	14.5	Normal
29	1950-1951	7/30	2900	15.0	Normal
30	1950-1951	8/10	3000	15.5	Normal
31	1950-1951	8/20	3100	16.0	Normal
32	1950-1951	8/30	3200	16.5	Normal
33	1950-1951	9/10	3300	17.0	Normal
34	1950-1951	9/20	3400	17.5	Normal
35	1950-1951	9/30	3500	18.0	Normal
36	1950-1951	10/10	3600	18.5	Normal
37	1950-1951	10/20	3700	19.0	Normal
38	1950-1951	10/30	3800	19.5	Normal
39	1950-1951	11/10	3900	20.0	Normal
40	1950-1951	11/20	4000	20.5	Normal
41	1950-1951	11/30	4100	21.0	Normal
42	1950-1951	12/10	4200	21.5	Normal
43	1950-1951	12/20	4300	22.0	Normal
44	1950-1951	12/30	4400	22.5	Normal
45	1950-1951	1/10	4500	23.0	Normal
46	1950-1951	1/20	4600	23.5	Normal
47	1950-1951	1/30	4700	24.0	Normal
48	1950-1951	2/10	4800	24.5	Normal
49	1950-1951	2/20	4900	25.0	Normal
50	1950-1951	2/28	5000	25.5	Normal

DEPTHS TO GROUND WATER IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954 (continued)

Well number	Fall, 1953		Spring, 1954	
	Date	Feet	Date	Feet
1N/8E-17D1	Oct. 27	51.9	Mar. 26	46.5
17J1	Oct. 27	48.9	Mar. 26	31.8
19C1 ^b	Oct. 26	45.2	Mar. 26	48.2
23J1	Oct. 27	57.4	Mar. 26	51.0
25G1	Oct. 27	59.5	Mar. 26	50.6
26A2	Oct. 27	57.8	Mar. 26	54.3
27A1	Oct. 27	56.8	Mar. 26	Could not measure
27R2	Oct. 27	52	Mar. 26	69.2
29J1	Oct. 26	47.1	Mar. 26	39.6
30A1	Oct. 26	46.5	Mar. 26	43.3
32D1	Oct. 26	43.0	Mar. 26	36.1
32G1	Oct. 26	41.2	Mar. 26	43.4
33H1	Nov. 16	44.0	Mar. 26	40.0
33P1	Nov. 16	39.2	Mar. 25	35.9
34J1	Oct. 27	Could not measure	Mar. 26	44.3
35H2	Oct. 26	Locked	Mar. 25	43.2
36H1	Oct. 26	55.7	Mar. 25	44.8
36R1	Oct. 26	60.0	Mar. 25	48.8
1N/9E-2R1	Oct. 26	67.5	Mar. 26	67.1
8H1	Oct. 26	Locked	Mar. 26	89.7
13D1	Oct. 26	68.9	Mar. 26	60.5
15B1	Oct. 26	60.3	Mar. 26	63.1
17A1	Oct. 26	62.0	Mar. 26	44.9
17M1	Oct. 26	64.3	Mar. 25	59.5
17R1	Nov. 16	42.9	Mar. 26	51.3

DEPTHS TO GROUND WATER IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954 (continued)

Well number	Fall, 1953		Spring, 1954	
	Date	Feet	Date	Feet
1N/9E-18P1	Oct. 27	63.6	Mar. 26	53.2
19K2	Oct. 27	54.6	Mar. 26	51.7
22G1	Oct. 26	40.0	Mar. 26	52.2
26J1	Nov. 16	39.0	Mar. 26	51.1
29A1	Oct. 26	Could not measure	----	----
31H1	Oct. 26	66.7	Mar. 25	56.4
32J1	Nov. 16	54.7	Mar. 25	40.2
33P1	Oct. 26	72.2	Mar. 25	59.4
34C1	Oct. 26	70.8	Mar. 25	68.8
1N/10E-10N1	Nov. 16	98.8	Mar. 25	99.0
22H1	Nov. 16	54.7	Mar. 25	53.3
32F1	Nov. 16	64.0	Mar. 25	59.7
35R1	Nov. 16	42.5	Mar. 25	39.3
36R1	Nov. 16	39.0	Mar. 25	37.3
1S/7E-1J1	Oct. 28	32.5	Mar. 24	16.3
3A1	Oct. 28	24.8	Mar. 24	24.2
5A1	Oct. 28	20	Mar. 24	16.0
6M2	Nov. 16	11.2	Mar. 24	13.0
8J2	Oct. 28	8.3	Mar. 24	9.6
10A1	Oct. 28	25.2	Mar. 24	16.7
11L1	Nov. 16	11.2	Mar. 24	33.1
12H1	Oct. 28	24.7	Mar. 24	18.7
13C1	Nov. 16	12.7	Mar. 24	Could not measure
14P1	Nov. 16	2.8	Mar. 24	2.8
15F1	Oct. 28	9.5	Mar. 24	9.6
24D1	Oct. 28	Could not measure	Mar. 24	9.5

DEPTHS TO GROUND WATER IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954 (continued)

Well number	Fall, 1953		Spring, 1954	
	Date	Feet	Date	Feet
1S/8E-1P1	Oct. 27	55.5	Mar. 25	44.3
4H1	Nov. 16	41.2	Mar. 25	37.3
7J1	Oct. 28	22.7	Mar. 24	19.8
9A1	Oct. 27	43.3	Mar. 25	39.4
10F2	Nov. 16	37.6	Mar. 25	29.6
11R1	Oct. 27	49.6	Mar. 25	46.8
14L1	Nov. 16	38.5	Mar. 25	34.3
16C1	Oct. 28	25.9	Mar. 24	13.8
17E1	Oct. 28	20.9	Mar. 24	Could not measure
18E1	Oct. 28	13.8	Mar. 24	14.4
19N1	Nov. 16	8.8	Mar. 24	9.7
19Q1	Oct. 28	9.7	Mar. 24	9.4
20H1	Oct. 28	14.3	Mar. 24	3.5
21B1	Oct. 28	23.0	Mar. 24	21.4
21P1	Oct. 28	15.4 ^c	Mar. 24	14.5
22H2	Nov. 16	27.7	Mar. 25	14.6
22R1	Oct. 28	16.4	Mar. 25	15.1
24C1	Oct. 27	47.2	Mar. 25	50.4
24N1	Oct. 27	37.4	Mar. 25	33.6
24R1	Oct. 27	35.7	Mar. 25	40.5
29E1	Oct. 28	12.9	Mar. 24	11.0
29H1	Oct. 29	14.6	Mar. 24	14.1
1S/9E-5N1	Oct. 27	Oper.	Mar. 25	44.4
5R1	Oct. 27	51.4	Mar. 25	44.5
7N1	Oct. 27	54.0	Mar. 25	49.1

DEPTHS TO GROUND WATER IN LITTLEJOHNS UNIT,
FALL OF 1953 AND SPRING OF 1954 (continued)

Well	Fall, 1953		Spring, 1954	
number	Date	Feet	Date	Feet
1S/9E-8J1	Oct. 27	44.0	Mar. 25	Could not measure
9R1	Oct. 27	63.0	Mar. 25	57.0
10R1	Nov. 16	50.4	Mar. 25	47.6
17N1	Oct. 27	51	Mar. 25	42.0
18F1	----	----	Mar. 25	46.2
20N1	Oct. 27	46.9	Mar. 25	41.7
1S/10E-12L1	Nov. 16	91.5	Mar. 25	89.4

- a - Well No. 1N/8E-11G2--Reference point-top of casing, elevation 85.8 feet. 1.52 miles south of Copperopolis Road and 0.15 mile west of Dietrich Road. 11/21/51, 50.8; 4/4/52, 43.1; 11/6/52, 48.6; 3/27/53, 56.9.
- b - Well No. 1N/8E-19C1--Reference point-hole in pump base, elevation 61.5 feet. 0.3 mile east of Jack Tone Road and 1.0 mile south of Farmington Road. 4/7/52, 32.5; 11/6/52, 44.5; 3/24/53, 39.5.
- c - New reference point, top of casing, elevation 63.5 feet.

TABLE 4

PARTIAL MINERAL ANALYSES
OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS

TABLE 4
PARTIAL MINERAL ANALYSES OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS

Well number	Date of sample	Chloride, in parts per million	Conductance, Ec x 10 ⁶ at 25°C.
CALAVERAS UNIT			
1N/6E-10E1	2/26/53	224	1,030
14Q1	2/26/53	1,490	4,740
15M1	1/19/53	570	-----
15P1	5/24/54	202	900
15P2	5/24/54	208	1,060
15P3	5/24/54	182	680
15Q1	5/24/54	40	410
16P1	2/26/53	168	1,045
1N/7E- 8R1	2/26/53	10	487
LITTLEJOHNS UNIT			
1N/6E-26B1	5/25/54	108	500
26F1	5/25/54	44	405
26N1	5/24/54	78	554
36C1	5/25/54	44	500
36N1	5/25/54	94	580

TABLE 5

COMPLETE MINERAL ANALYSES
OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS

COMPLETE MINERAL ANALYSES OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS

Well number	Date of sample	Conduct- ance, Ecx10 ⁶ at 25° C.	Mineral constituents, in equivalents per million										Mineral constituents, in parts per million					Per cent	
			pH	Mineral constituents, in equivalents per million										Mineral constituents, in parts per million					
				Ca	Mg	Na	K	CO ₃	HCO ₃	Cl	SO ₄	NO ₃	F	B	SiO ₂	hard- ness	as CaCO ₃		
CALAVERAS UNIT																			
2N/8E-10C1	7/14/54	239	8.9	1.05	0.74	0.61	0.07	0.33	1.67	0.23	0.23	0	0.2	0.04	80	89	25		
25P1	8/25/53	245	7.2	1.00	0.91	0.48	0.11	0	1.90	0.21			0.12			95	19		
28R1	8/25/53	251	7.5	1.10	0.90	0.56	0.08	0	2.15	0.25	0.15	0.08	0	0.02	71	100	21		
1N/6E-4D1	7/15/54	486	7.7	0.31	0.37	4.26	0.03	0	3.57	1.44	0	0	0.1	0.60	66	34	86		
14C2	7/15/54	468	8.5	1.15	0.87	2.65	0.04	0.20	2.49	1.92	0.12	0	0.1	0.25	46	101	56		
LITTLEJOHNS UNIT																			
1N/7E-11J1	7/28/53	251	8.1	0.95	0.76	0.70	0.08	0	2.10	0.34	0.10	0.01	0.2	0.03	60	86	28		
1N/8E-10B1	8/25/53	225	7.4	0.70	0.82	0.61	0.12	0	1.82	0.23			0.03			76	27		
13N1	8/25/53	257	7.6	0.85	0.99	0.74	0.06	0	1.97	0.40			0.02			92	28		
16H1	8/25/53	223	7.3	0.75	0.78	0.61	0.09	0	1.64	0.27			0.06			76	27		
36H1	8/25/53	235	7.4	0.85	0.82	0.65	0.05	0	1.84	0.26			0			84	27		
1N/9E-1C1	8/20/53	183	7.9	0.70	0.62	0.42	0.10	0	1.34	0.27	0.05	0.19	0.1	0	78	66	23		
6B1	8/25/53	207	7.6	0.70	0.72	0.61	0.07	0	1.56	0.34			0.10			7	29		
15N1	8/24/53	217	8.1	0.90	0.63	0.61	0.08	0	1.57	0.37	0.11	0.11	0.2	0.01	74	77	27		

COMPLETE MINERAL ANALYSES OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS (continued)

Well number	Date of sample	Conduct- ance, Ec x 10 ⁶ at 25° C.	Mineral constituents, in equivalents per million										Mineral constituents, in parts per million					Per cent
			pH										Total					
			Ca	Mg	Na	K	CO ₃	HCO ₃	Cl	SO ₄	NO ₃	F	B	SiO ₂	hard-			
1N/9E-18G1	7/28/53	206	7.9	0.60	0.61	0.52	0.07	0	1.28	0.28	0.08	0.18	0.05	79	60	29		
25C1	8/25/53	240	7.5	0.90	0.82	0.56	0.11	0	1.87	0.24			0.04	86	74			
32J1	8/24/53	207	7.6	0.70	0.70	0.61	0.06	0	1.46	0.31			0.12	70	29			
36N1	8/24/53	205	7.8	0.65	0.74	0.61	0.09	0	1.51	0.37			0.07	69	29			
1S/7E-1J1	8/5/53	341	7.6	1.20	1.15	1.13	0.09	0	2.59	0.56			0.13	117	32			
3J1	8/7/53	417	7.6	1.70	1.32	1.09	0.12	0	2.52	1.13			0.13	151	26			
8M1	8/18/53	1,070	7.9	3.64	3.62	4.87	0.15	0	9.51	1.30	1.10		0.31	363	40			
10A1	7/28/53	349	8.3	1.25	0.90	1.04	0.08	0	2.44	0.54	0.29	0.05	0.1	0.12	108	32		
	7/14/54	336	7.8	1.40	1.21	1.09	1.08	0	2.79	0.56	0.35	0.05	0.2	0.16	130	29		
10A2	8/7/53	339	8.2	1.30	0.90	1.09	0.07	0	2.44	0.51	0.29	0.04	0.1	0.21	110	32		
13H1	8/5/53	338	8.0	1.25	0.82	1.35	0.06	0	2.54	0.56	0.17	0.12	0.2	0.09	104	39		
15H1	8/7/53	324	7.9	1.30	0.76	1.09	0.11	0	2.13	0.76			0.10	103	33			
23A1	8/5/53	526	7.8	2.35	1.64	1.61	0.13	0	5.05	0.18	0.18	0.13	0	0.25	200	28		
1S/8E-19N1	8/5/53	962	7.5	3.64	2.22	3.83	0.15	0	5.24	3.41			0.10	299	39			

No.	Name	Address	City	State	Zip	Total											
						1	2	3	4	5	6	7	8	9	10	11	12
1	John Doe	123 Main St	New York	NY	10001	100	200	300	400	500	600	700	800	900	1000	1100	1200
2	Jane Smith	456 Elm St	Los Angeles	CA	90001	150	250	350	450	550	650	750	850	950	1050	1150	1250
3	Bob Johnson	789 Oak St	Chicago	IL	60601	120	220	320	420	520	620	720	820	920	1020	1120	1220
4	Alice Brown	101 Pine St	San Francisco	CA	94101	180	280	380	480	580	680	780	880	980	1080	1180	1280
5	Charlie White	202 Cedar St	Houston	TX	77001	140	240	340	440	540	640	740	840	940	1040	1140	1240
6	Diana Green	303 Birch St	Phoenix	AZ	85001	160	260	360	460	560	660	760	860	960	1060	1160	1260
7	Frank Black	404 Maple St	Philadelphia	PA	19101	130	230	330	430	530	630	730	830	930	1030	1130	1230
8	Grace Hall	505 Walnut St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
9	Henry King	606 Elm St	Portland	OR	97201	110	210	310	410	510	610	710	810	910	1010	1110	1210
10	Ivy Lee	707 Oak St	Seattle	WA	98101	190	290	390	490	590	690	790	890	990	1090	1190	1290
11	Jack Miller	808 Pine St	Denver	CO	80201	100	200	300	400	500	600	700	800	900	1000	1100	1200
12	Karen Wilson	909 Cedar St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
13	Leo Taylor	1010 Maple St	San Antonio	TX	78201	140	240	340	440	540	640	740	840	940	1040	1140	1240
14	Mia Anderson	1111 Walnut St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
15	Noah Thomas	1212 Elm St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
16	Olivia Harris	1313 Oak St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
17	Peter Clark	1414 Pine St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
18	Quinn Lewis	1515 Cedar St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
19	Rachel Walker	1616 Maple St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
20	Samuel Young	1717 Walnut St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
21	Tina King	1818 Elm St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
22	Uma Lee	1919 Oak St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
23	Victor Miller	2020 Pine St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
24	Wendy Wilson	2121 Cedar St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
25	Xavier Clark	2222 Maple St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
26	Yara Lewis	2323 Walnut St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
27	Zoe Walker	2424 Elm St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
28	Adam Young	2525 Oak St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
29	Bella King	2626 Pine St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
30	Charlie Lee	2727 Cedar St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
31	Diana Miller	2828 Maple St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
32	Ethan Wilson	2929 Walnut St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
33	Fiona Clark	3030 Elm St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
34	Gavin Lee	3131 Oak St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
35	Hannah Miller	3232 Pine St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
36	Ivan King	3333 Cedar St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
37	Jessica Lee	3434 Maple St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
38	Kyle Wilson	3535 Walnut St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
39	Laura Clark	3636 Elm St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
40	Mason Lee	3737 Oak St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
41	Natalie Miller	3838 Pine St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
42	Oscar King	3939 Cedar St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
43	Pamela Lee	4040 Maple St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
44	Quinn Wilson	4141 Walnut St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
45	Rachel Clark	4242 Elm St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
46	Samuel Lee	4343 Oak St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
47	Tina Miller	4444 Pine St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
48	Uma Wilson	4545 Cedar St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
49	Victor King	4646 Maple St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
50	Wendy Lee	4747 Walnut St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
51	Xavier Wilson	4848 Elm St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
52	Yara Clark	4949 Oak St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
53	Zoe Lee	5050 Pine St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
54	Adam Miller	5151 Cedar St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
55	Bella King	5252 Maple St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
56	Charlie Wilson	5353 Walnut St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
57	Diana Clark	5454 Elm St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
58	Ethan Lee	5555 Oak St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
59	Fiona Miller	5656 Pine St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
60	Gavin Wilson	5757 Cedar St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
61	Hannah King	5858 Maple St	San Francisco	CA	94101	190	290	390	490	590	690	790	890	990	1090	1190	1290
62	Ivan Lee	5959 Walnut St	San Jose	CA	95101	160	260	360	460	560	660	760	860	960	1060	1160	1260
63	Jessica Miller	6060 Elm St	San Luis Obispo	CA	93401	180	280	380	480	580	680	780	880	980	1080	1180	1280
64	Kyle Wilson	6161 Oak St	San Marcos	CA	92371	120	220	320	420	520	620	720	820	920	1020	1120	1220
65	Laura King	6262 Pine St	San Bernardino	CA	92401	150	250	350	450	550	650	750	850	950	1050	1150	1250
66	Mason Lee	6363 Cedar St	San Clemente	CA	92673	130	230	330	430	530	630	730	830	930	1030	1130	1230
67	Natalie Miller	6464 Maple St	San Diego	CA	92101	170	270	370	470	570	670	770	870	970	1070	1170	1270
68	Oscar Wilson	6565 Walnut St	San Francisco	CA													

COMPLETE MINERAL ANALYSES OF GROUND WATER
IN CALAVERAS AND LITTLEJOHNS UNITS (continued)

Well number	Date of sample	Conduct- ance, Ec x 10 ⁶ at 25° C.	pH	Mineral constituents, in equivalents per million										Mineral constituents, in parts per million					Per cent
				Ca	Mg	Na	K	CO ₃	HCO ₃	Cl	SO ₄	NO ₃	F	B	SiO ₂	hard-	Total		
1S/9E-2R1	8/18/53	256	7.4	0.90	0.81	0.70	0.08	0	1.62	0.31				0.06			85	28	
8H1	7/28/53	276	8.1	0.95	0.65	0.91	0.03	0	1.61	0.62	0.14	0.16	0.3	0.05	58		80	36	
	7/14/54	212	8.2	0.80	0.56	0.78	0.07	0	1.48	0.37	0.27	0.09	0	0.19	74		68	35	
10P1	8/19/53	212	7.8	0.75	0.64	0.61	0.07	0	1.41	0.45	0.17	0.08	0.1	0.04	76		70	29	

APPENDIX

	<u>Page</u>
Agreement Between the State Water Resources Board, the County of San Joaquin, and the Department of Public Works, Dated October 1, 1953	106
Agreement Between the State Water Resources Board, the Stockton and East San Joaquin Water Conserva- tion District, and the Department of Public Works, Dated October 1, 1954	111

AGREEMENT BETWEEN THE STATE WATER RESOURCES BOARD,
THE COUNTY OF SAN JOAQUIN
AND THE DEPARTMENT OF PUBLIC WORKS

THIS AGREEMENT, executed in quintuplicate, entered into as of October 1, 1953, by the State Water Resources Board, hereinafter referred to as the "Board"; the County of San Joaquin, hereinafter referred to as the "County"; and the Department of Public Works of the State of California, acting through the agency of the State Engineer, hereinafter referred to as the "State Engineer":

W I T N E S S E T H

WHEREAS, an investigation of the Calaveras River and Farmington-Collegeville areas in San Joaquin County has been conducted by the Department of Public Works, acting by and through the agency of the State Engineer, between February 1948 and June 1953, and the results of said investigation are to be published pursuant to a cooperative arrangement between the Department and the County whereby the work accomplished, including publication of the bulletin, was financed with funds contributed equally by the County and the State of California; and

WHEREAS, funds were appropriated to the Board by Item 262 of the Budget Act of 1953 for continuing work on ground water level and stream flow measurements, a quality of water check, and collection of crop survey records in the Calaveras and Farmington-Collegeville areas on a matching basis, pending accomplishment of solution of the water problems in the areas; and

WHEREAS, by the State Water Resources Act of 1945, as amended, the Board is authorized to make investigations, studies,

surveys, prepare plans and estimates, and make recommendations to the Legislature in regard to water development projects; and

WHEREAS, by said act, the State Engineer is authorized to cooperate with any county, city, State agency or public district on flood control and other water problems and when requested by any thereof may enter into a cooperative agreement to expend money in behalf of any thereof to accomplish the purposes of said act; and

WHEREAS, the County desires and hereby requests the Board to enter into a cooperative agreement for the making of ground water level and stream flow measurements, and a quality of water check in the Calaveras River and Farmington-Collegeville areas between October 1, 1953 and September 30, 1954, and prepare a supplemental report thereon;

NOW THEREFORE, in consideration of the premises and of the several promises to be faithfully performed by each as hereinafter set forth, the Board, the County, and the State Engineer do hereby mutually agree as follows:

ARTICLE I - WORK TO BE PERFORMED:

The work to be performed under this agreement shall consist of stream flow measurements and a series of ground water level measurements in the fall of 1953 and spring of 1954, a general water quality check of surface and underground waters in the Calaveras River and Farmington-Collegeville areas, and the compilation and preparation of a report on the results of such measurements, water quality check and crop surveys.

The Board by this agreement authorizes and directs the State Engineer to proceed with the work to be performed, and further authorizes the State Engineer to contract with the County securing any portion of the necessary records and data required by this agreement.

During the progress of said investigation and report all maps, plans, information, data and records pertaining thereto which are in the possession of any party hereto shall be made fully available to any other party for the due and proper accomplishment of the purposes and objects hereof.

The work under this agreement shall be diligently prosecuted with the objective of completion of the investigation and compilation of data and preparation of a report thereon on or before September 30, 1954, or as soon thereafter as possible.

ARTICLE II - FUNDS:

The County, upon execution by it of this agreement, shall transmit to the State Engineer the sum of Two Thousand Dollars (\$2,000) for deposit, subject to the approval of the Director of Finance, into the Water Resources Revolving Fund in the State Treasury, for expenditures by the State Engineer in performance of the work provided for in this agreement. Also, upon execution of this agreement by the Board, the Director of Finance will be requested to approve the transfer of the sum of Two Thousand Dollars (\$2,000) from funds made available to the Board by Item 262 of the Budget Act of 1953, as augmented, for expenditure by the State Engineer in performance of the work

provided for in this agreement and the State Controller will be requested to make such transfer.

If the Director of Finance, within thirty (30) days after receipt by the State Engineer of said Two Thousand Dollars (\$2,000) from the County, shall not have approved the deposit thereof into said Water Resources Revolving Fund, together with the transfer of the sum of said Two Thousand Dollars (\$2,000) from funds made available to the Board, for expenditure by the State Engineer in performance of the work provided for in this agreement, such sum contributed by the County shall be returned thereto by the State Engineer.

The Board and the State Engineer shall under no circumstances be obligated to expend for or on account of the work provided for under this agreement any amount in excess of the sum of Four Thousand Dollars (\$4,000) as made available hereunder and when said sum is exhausted, the Board and the State Engineer may discontinue the work provided for in this agreement and shall not be liable or responsible for the resumption and completion thereof.

Upon completion of and final payment for the work provided for in this agreement, the State Engineer shall furnish to the Board and to the County a statement of all expenditures made under this agreement. One-half of the total amount of all said expenditures shall be deducted from the sum advanced from funds appropriated to said Board, and one-half of the total amount of all said expenditures shall be deducted from the sum

advanced by the County and any balance which may remain shall be returned to the Board, and to the County, in equal amount.

IN WITNESS WHEREOF, the parties hereto have executed this agreement to be effective as of the date hereinabove first written.

Approved as to Form and
Procedure

COUNTY OF SAN JOAQUIN

/s/ Frederick C. Felton
County Counsel
County of San Joaquin

/s/ W. R. Ruggles
Chairman, Board of Supervisors

Approved as to Form and
Procedure

/s/ Ida M. Golding
Clerk, Board of Supervisors

S
E
A
L

/s/ Henry Holsinger
Attorney for Division of
Water Resources

STATE WATER RESOURCES BOARD

Approved as to Form and
Procedure

/s/ C. A. Griffith
Chairman

Attorney, Department of
Public Works

State of California
Department of Public Works

APPROVED:
JOHN M. PEIRCE, Director of Finance

FRANK B. DURKEE
Director of Public Works

S
E
A
L

By /s/ Russell S. Munro
Deputy Director of Public Works

/s/ A. Earl Washburn
Deputy Director of Finance

Department of Finance
APPROVED
Nov. 13, 1953

A. D. Edmonston
State Engineer

By /s/ T. R. Merryweather
Administrative Officer

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Attest: Secretary of the Company

Done at New York, New York, this 1st day of January, 1911

Witness my hand

Secretary of the Company

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

Approved by the Board of Directors of the Company

Witness my hand and seal this 1st day of January, 1911

AGREEMENT BETWEEN THE STATE WATER RESOURCES BOARD,
THE STOCKTON AND EAST SAN JOAQUIN WATER CONSERVATION DISTRICT,
AND THE DEPARTMENT OF PUBLIC WORKS

THIS AGREEMENT, executed in quintuplicate, entered into as of October 1, 1954, by the State Water Resources Board, hereinafter referred to as the "Board"; the Stockton and East San Joaquin Water Conservation District, hereinafter referred to as the "District"; and the Department of Public Works of the State of California, acting through the agency of the State Engineer, hereinafter referred to as the "State Engineer":

W I T N E S S E T H

WHEREAS, an investigation of the Calaveras River Area in San Joaquin County has been conducted by the Department of Public Works, acting by and through the agency of the State Engineer, between February 1948 and August 1954, and the results of said investigation are to be published pursuant to a co-operative arrangement between the Department and the County of San Joaquin whereby the work accomplished, including publication of the bulletin, was financed with funds contributed equally by the County and the State of California; and

WHEREAS, funds were appropriated to the Board by Item 260 of the Budget Act of 1954 for continuing work on ground water level and stream flow measurements, a quality of water check, and collection of crop survey records in the Calaveras River Area on a matching basis, pending accomplishment of solution of the water problems in the area; and

WHEREAS, by the State Water Resources Act of 1945, as amended, the Board is authorized to make investigations, studies, surveys, prepare plans and estimates, and make recommendations to the Legislature in regard to water development projects; and

WHEREAS, by said act, the State Engineer is authorized to cooperate with any county, city, State agency or public district on flood control and other water problems and when requested by any thereof may enter into a cooperative agreement to expend money in behalf of any thereof to accomplish the purposes of said act; and

WHEREAS, the District desires and hereby requests the Board to enter into a cooperative agreement for the making of ground water level and stream flow measurements, and a quality of water check in the Calaveras River Area between October 1, 1954, and September 30, 1955, and prepare a supplemental report thereon:

NOW THEREFORE, in consideration of the premises and of the several promises to be faithfully performed by each as hereinafter set forth, the Board, the District, and the State Engineer do hereby mutually agree as follows:

ARTICLE I - WORK TO BE PERFORMED

The work to be performed under this agreement shall consist of stream flow measurements and a series of ground water level measurements in the fall of 1954 and spring of 1955, a general water quality check of surface and underground waters in the Calaveras River Area, and the compilation and preparation of a report on the results of such measurements, water quality check and crop surveys.

The Board by this agreement authorizes and directs the State Engineer to proceed with the work to be performed, and further authorizes the State Engineer to contract with the District securing any portion of the necessary records and data required by this agreement.

During the progress of said investigation and report, all maps, plans, information, data and records pertaining thereto which are in the possession of any party hereto shall be made fully available to any other party for the due and proper accomplishment of the purposes and objects hereof.

The work under this agreement shall be diligently prosecuted with the objective of completion of the investigation and compilation of data and preparation of a report thereon on or before September 30, 1955, or as soon thereafter as possible.

ARTICLE II - FUNDS:

The District, upon execution by it of this agreement, shall transmit to the State Engineer the sum of One Thousand Dollars (\$1,000) for deposit, subject to the approval of the Director of Finance, into the Water Resources Revolving Fund in the State Treasury, for expenditures by the State Engineer in performance of the work provided for in this agreement. Also, upon execution of this agreement by the Board, the Director of Finance will be requested to approve the transfer of the sum of One Thousand Dollars (\$1,000) from funds made available to the Board by Item 260 of the Budget Act of 1954, as augmented, for

expenditure by the State Engineer in performance of the work provided for in this agreement and the State Controller will be requested to make such transfer.

If the Director of Finance, within thirty (30) days after receipt by the State Engineer of said One Thousand Dollars (\$1,000) from the District, shall not have approved the deposit thereof into said Water Resources Revolving Fund, together with the transfer of the sum of said One Thousand Dollars (\$1,000) from funds made available to the Board, for expenditure by the State Engineer in performance of the work provided for in this agreement, such sum contributed by the District shall be returned thereto by the State Engineer.

The Board and the State Engineer shall under no circumstances be obligated to expend for or on account of the work provided for under this agreement any amount in excess of the sum of Two Thousand Dollars (\$2,000) as made available hereunder and when said sum is exhausted, the Board and the State Engineer may discontinue the work provided for in this agreement and shall not be liable or responsible for the resumption and completion thereof.

Upon completion of and final payment for the work provided for in this agreement, the State Engineer shall furnish to the Board and to the District a statement of all expenditures made under this agreement. One-half of the total amount of all said expenditures shall be deducted from the sum advanced from funds appropriated to said Board, and one-half of the total

amount of all said expenditures shall be deducted from the sum advanced by the district and any balance which may remain shall be returned to the board, and to the District, in equal amount.

IN WITNESS WHEREOF, the parties hereto have executed this agreement to be effective as of the date hereinabove first written.

Approved as to Form and
Procedure

STOCKTON AND EAST SAN JOAQUIN
WATER CONSERVATION DISTRICT

/s/ Irving L. Neumiller
Attorney for Stockton and East
San Joaquin Water Conservation
District

By /s/ Francis Grupe
Chairman, Board of Directors

Approved as to Form and
Procedure

STATE WATER RESOURCES BOARD

/s/ Henry Holsinger
Attorney for Division of
Water Resources

/s/ C. A. Griffith
C. A. Griffith, Chairman

Approved as to Form and
Procedure

State of California
Department of Public Works

FRANK B. DURKEE
Director of Public Works

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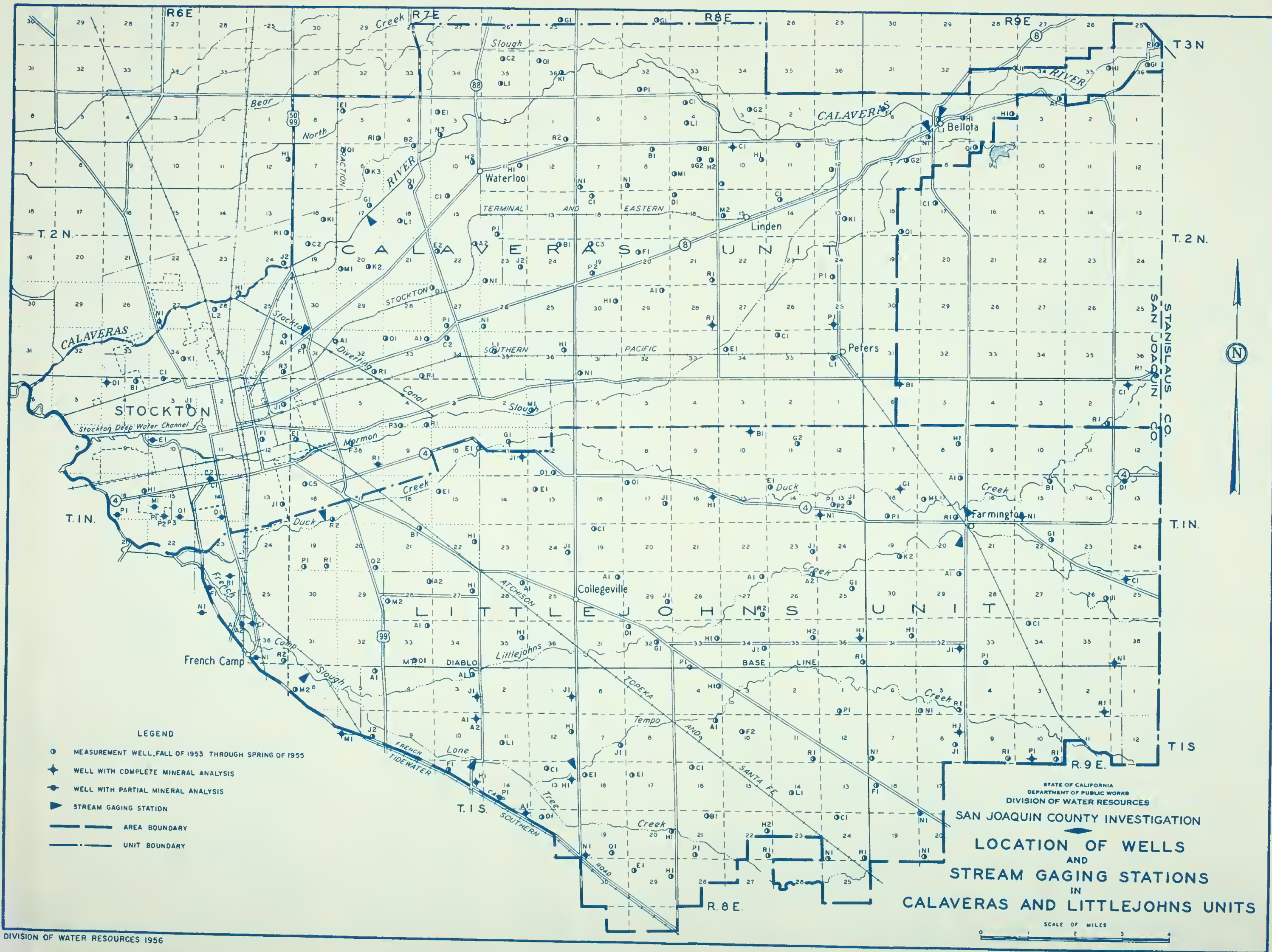
Attorney, Department of
Public Works

By /s/ Russell S. Munro
Russell S. Munro
Deputy Director of Public Works

APPROVED:

Director of Finance
Department of Finance
APPROVED
Dec. 2, 1954
JOHN M. PEIRCE, Director
By Luis J. Heinzer
Administrative Adviser

/s/ A. D. Edmonston
A. D. Edmonston
State Engineer



- LEGEND
- MEASUREMENT WELL, FALL OF 1953 THROUGH SPRING OF 1955
 - ⊕ WELL WITH COMPLETE MINERAL ANALYSIS
 - ⊙ WELL WITH PARTIAL MINERAL ANALYSIS
 - ▴ STREAM GAGING STATION
 - AREA BOUNDARY
 - - - UNIT BOUNDARY

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATER RESOURCES

SAN JOAQUIN COUNTY INVESTIGATION

LOCATION OF WELLS
AND
STREAM GAGING STATIONS
IN
CALAVERAS AND LITTLEJOHNS UNITS



